



HI, KIDS,
HERE'S A STORY ABOUT
CIVIL DEFENSE.

© G. Cato

OPERATION SURVIVAL!

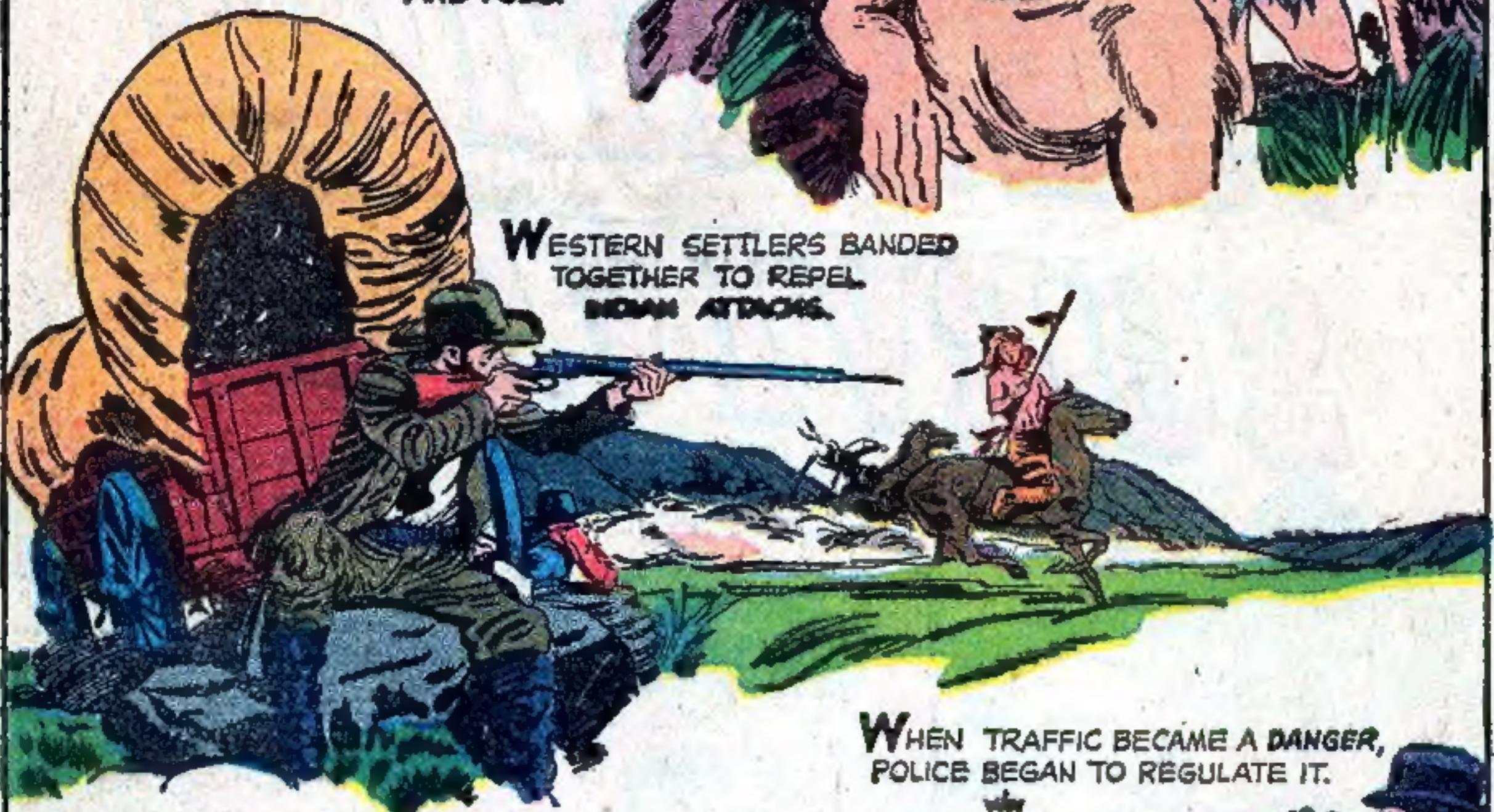


SINCE TIME BEGAN THERE HAVE ALWAYS BEEN DANGERS TO THREATEN MEN AND MEN HAVE ALWAYS SOUGHT WAYS TO PROTECT THEMSELVES.

THE EARLY CAVE MEN USED NATURAL SHELTERS AS A PROTECTION AGAINST STORMS, WILD ANIMALS, AND FOES.



WESTERN SETTLERS BANDED TOGETHER TO REPEL INDIAN ATTACKS.



A STORM CELLAR HAS LONG BEEN A HAVEN AGAINST TORNADOES.

WE HAVE FIRE DRILLS AND THE BEST FIRE-FIGHTING EQUIPMENT.



NOW WITH NEW DANGERS ADDED TO THE OLD, WE MUST LEARN NEW METHODS FOR OUR PROTECTION AND SURVIVAL. HERE IS A STORY ABOUT JIM AND SALLY AND HOW THEY FOUND OUT THAT BEING ALERT TODAY CAN MEAN BEING ALIVE TOMORROW.

WHEN TRAFFIC BECAME A DANGER, POLICE BEGAN TO REGULATE IT.



JIM AND SALLY LIVED WITH THEIR MOTHER AND FATHER NEAR THE TOWN OF CENTERVILLE.

HURRY UP, JIM...IT'S ALMOST TIME FOR UNCLE HARRY TO BE HERE.

I'M HURRYING...BOY,
I CAN'T WAIT TO SHOW HIM
THE BOAT I BUILT. I'LL BET
HE'LL BE SURPRISED.

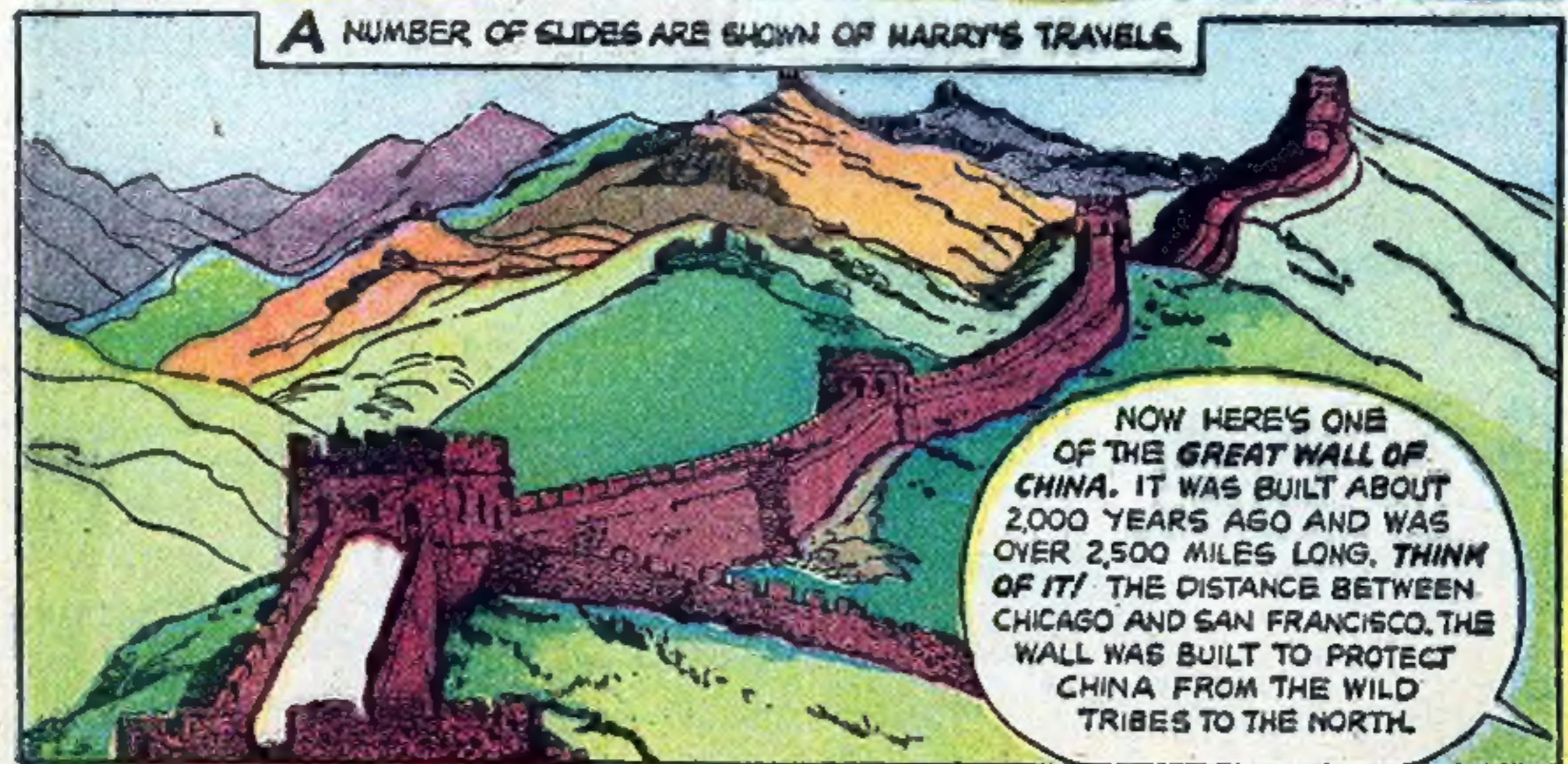
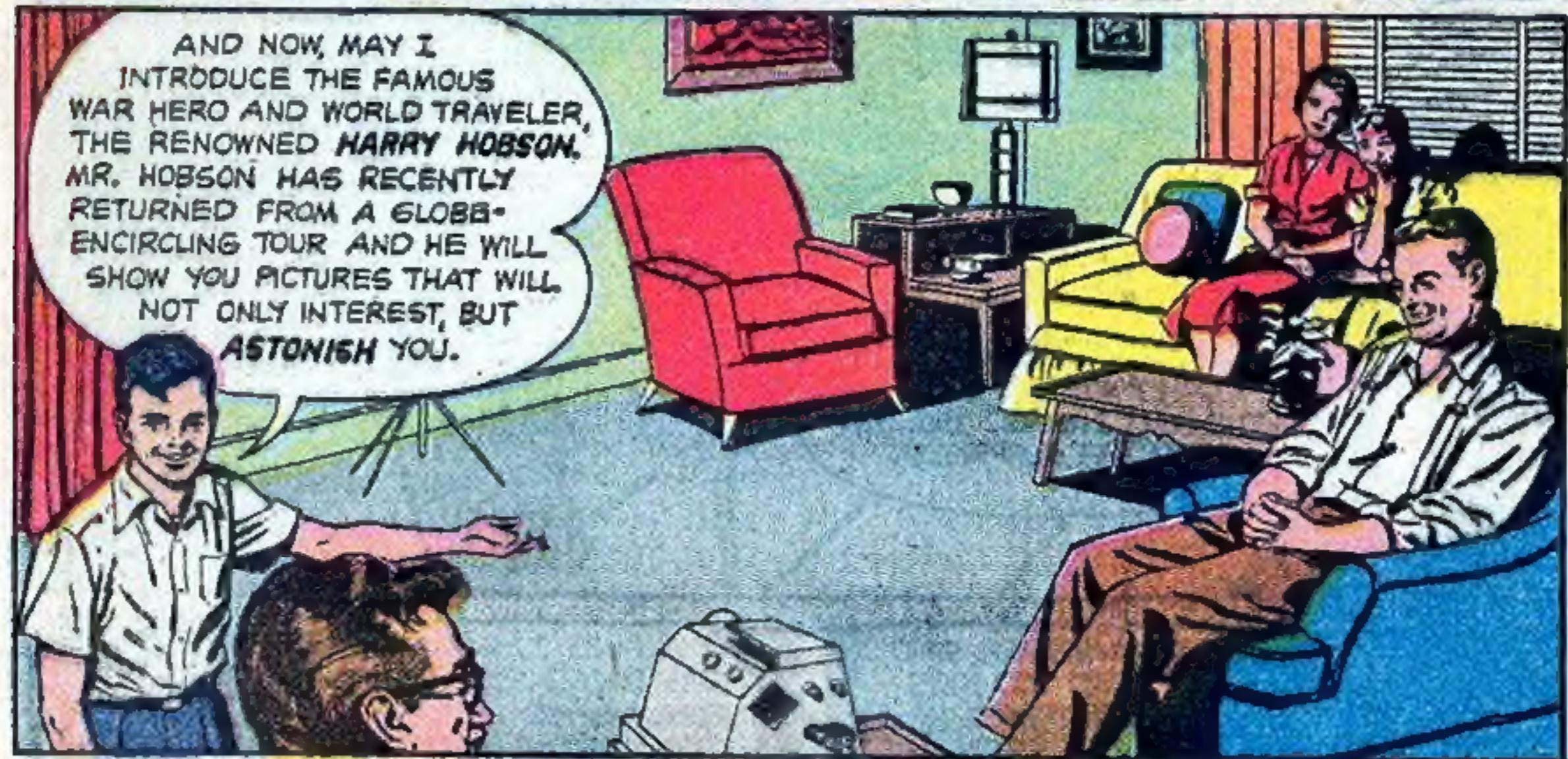
A FINE JOB, JIM.
SHE LOOKS SLEEK AND STREAMLINED ENOUGH TO TURN INTO A **REAL ROCKET** AND TAKE OFF!

BOY! WOULDN'T THAT BE SOMETHING?

UNCLE HARRY!

YOUR MOTHER SAID
I'D FIND YOU KIDS DOWN HERE.

HOW DO YOU
LIKE MY NEW BOAT,
UNCLE HARRY?





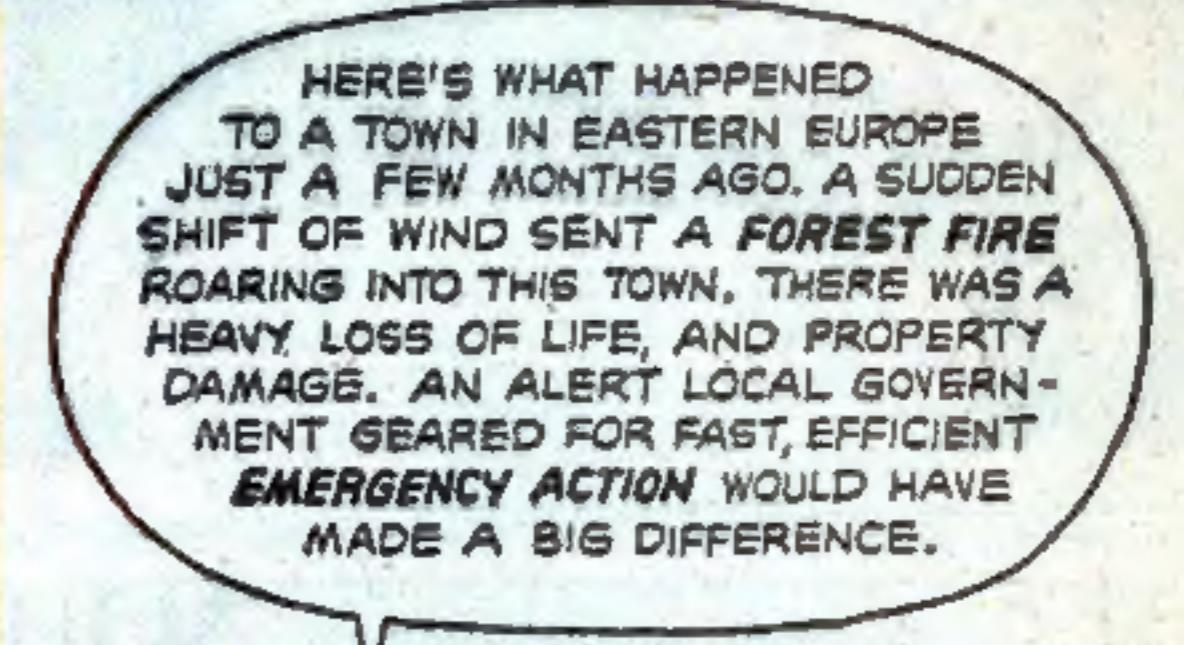
THIS PICTURE IS OF THE RUINS OF THE ANCIENT ITALIAN CITY OF POMPEII. THE CITY WAS DESTROYED BACK IN THE YEAR 79 A.D. BY AN ERUPTION OF MT. VESUVIUS. THAT'S THE VOLCANO IN THE BACKGROUND. HUNDREDS AND HUNDREDS OF PEOPLE WERE KILLED.



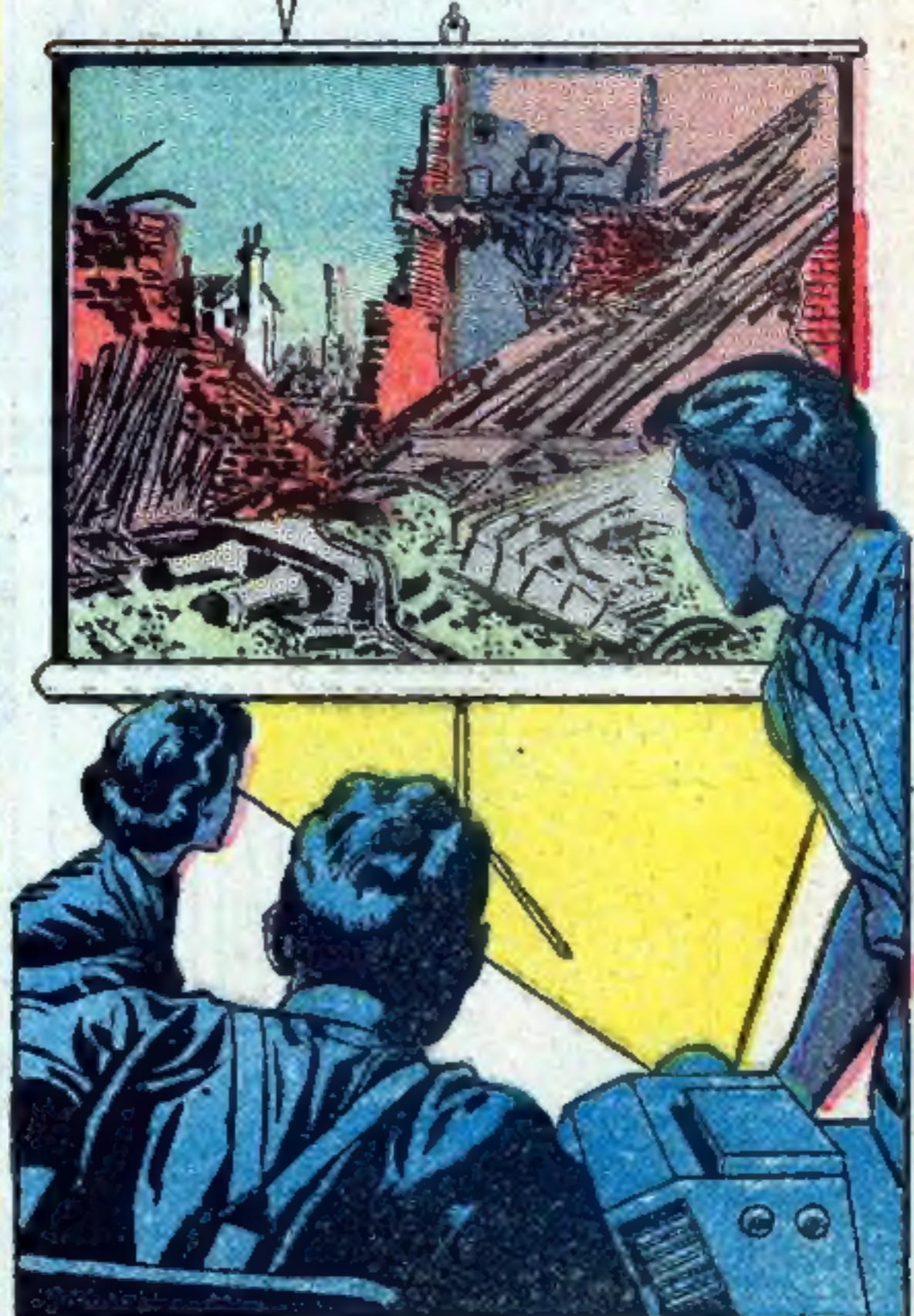
IF THE CITY FATHERS OF POMPEII HAD HAD A MODERN DISASTER PLAN WITH AN ADEQUATE WARNING SYSTEM, MANY PEOPLE MIGHT HAVE BEEN SAVED.

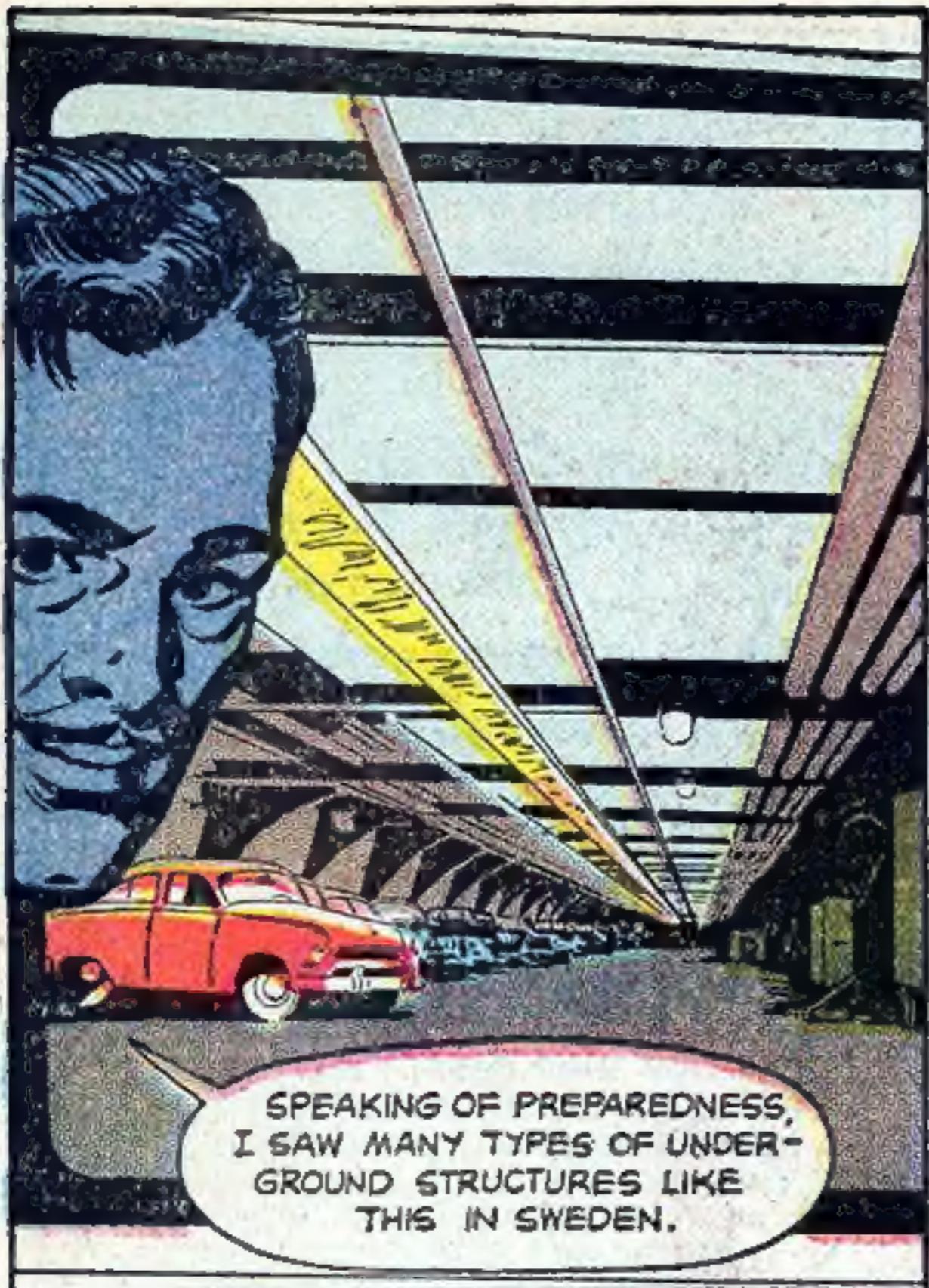


THIS CASTLE IS TYPICAL OF THE STRONGHOLDS THAT WERE BUILT IN EUROPE IN FEUDAL TIMES. THE CASTLE WAS A VITAL PLACE OF REFUGE WHEN DANGERS THREATENED. WHEN AN ENEMY invaded the land, THE WHOLE COMMUNITY WENT INSIDE THE CASTLE WALLS. SURROUNDED BY A MOAT FILLED WITH WATER, AND WITH THE DRAW-BRIDGE RAISED, THE DEFENDERS COULD WITHSTAND A LONG SIEGE.

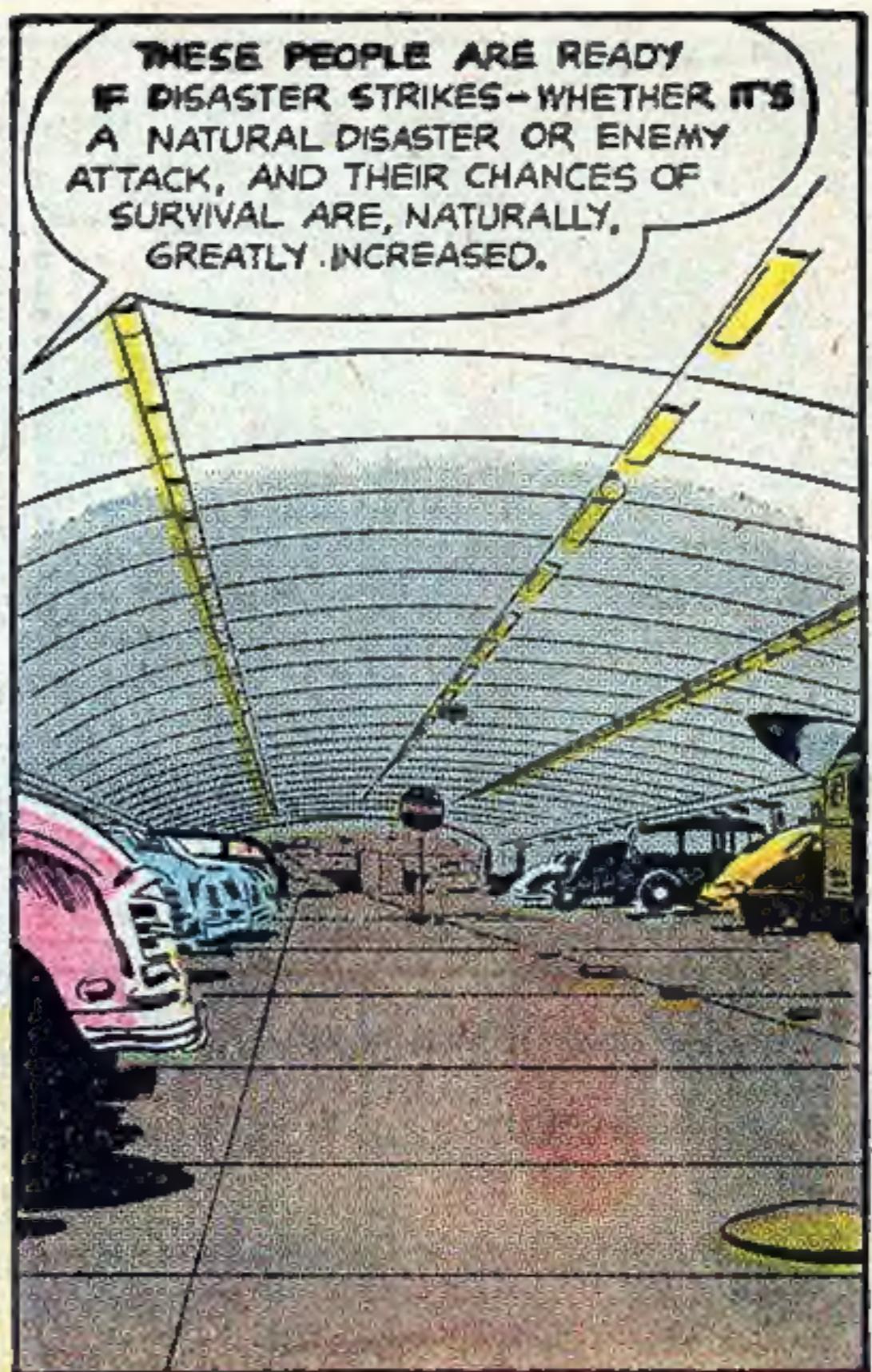


HERE'S WHAT HAPPENED TO A TOWN IN EASTERN EUROPE JUST A FEW MONTHS AGO. A SUDDEN SHIFT OF WIND SENT A FOREST FIRE ROARING INTO THIS TOWN. THERE WAS A HEAVY LOSS OF LIFE, AND PROPERTY DAMAGE. AN ALERT LOCAL GOVERNMENT GEARED FOR FAST, EFFICIENT EMERGENCY ACTION WOULD HAVE MADE A BIG DIFFERENCE.





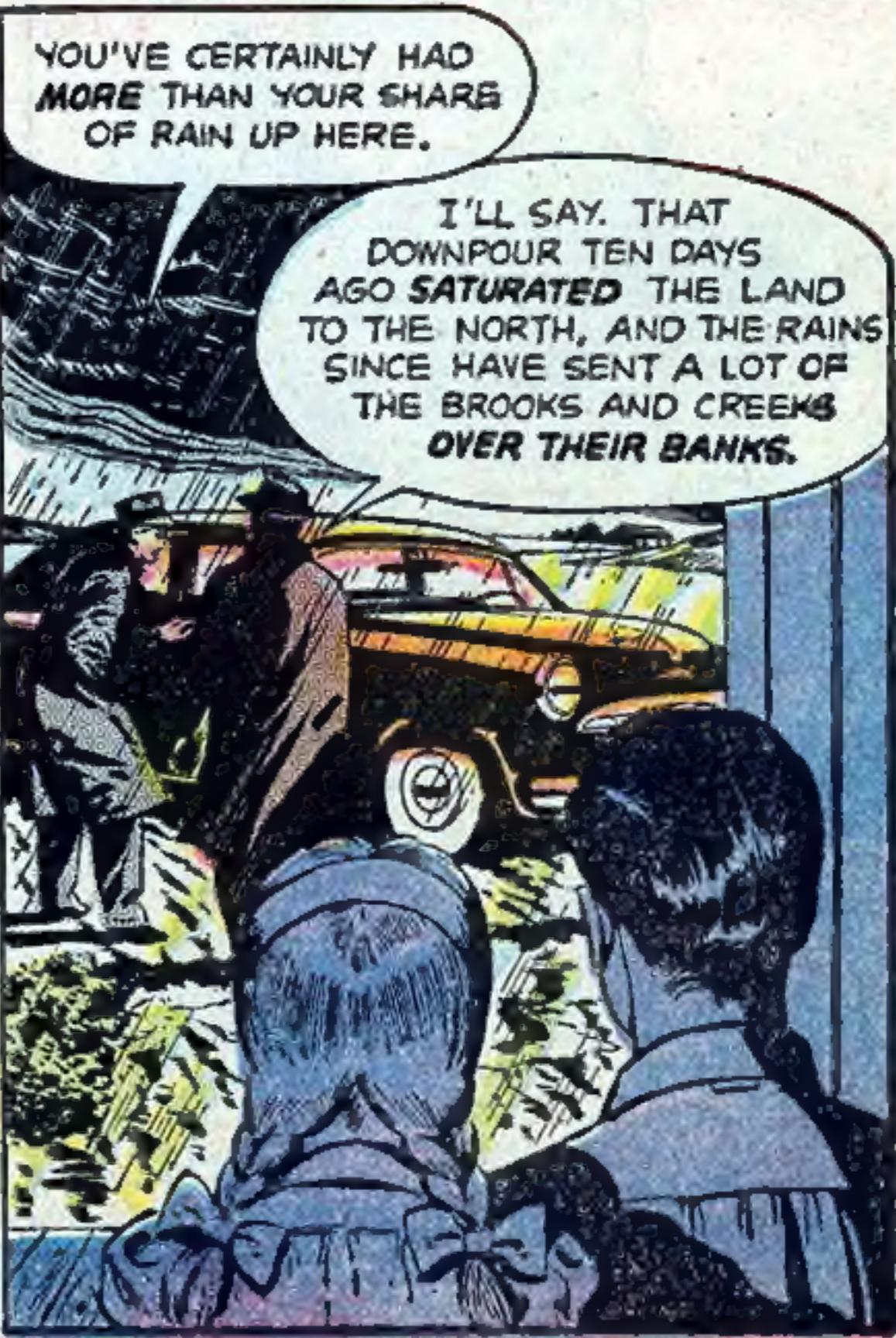
SPEAKING OF PREPAREDNESS,
I SAW MANY TYPES OF UNDER-
GROUND STRUCTURES LIKE
THIS IN SWEDEN.



THESE PEOPLE ARE READY
IF DISASTER STRIKES—WHETHER IT'S
A NATURAL DISASTER OR ENEMY
ATTACK, AND THEIR CHANCES OF
SURVIVAL ARE, NATURALLY,
GREATLY INCREASED.

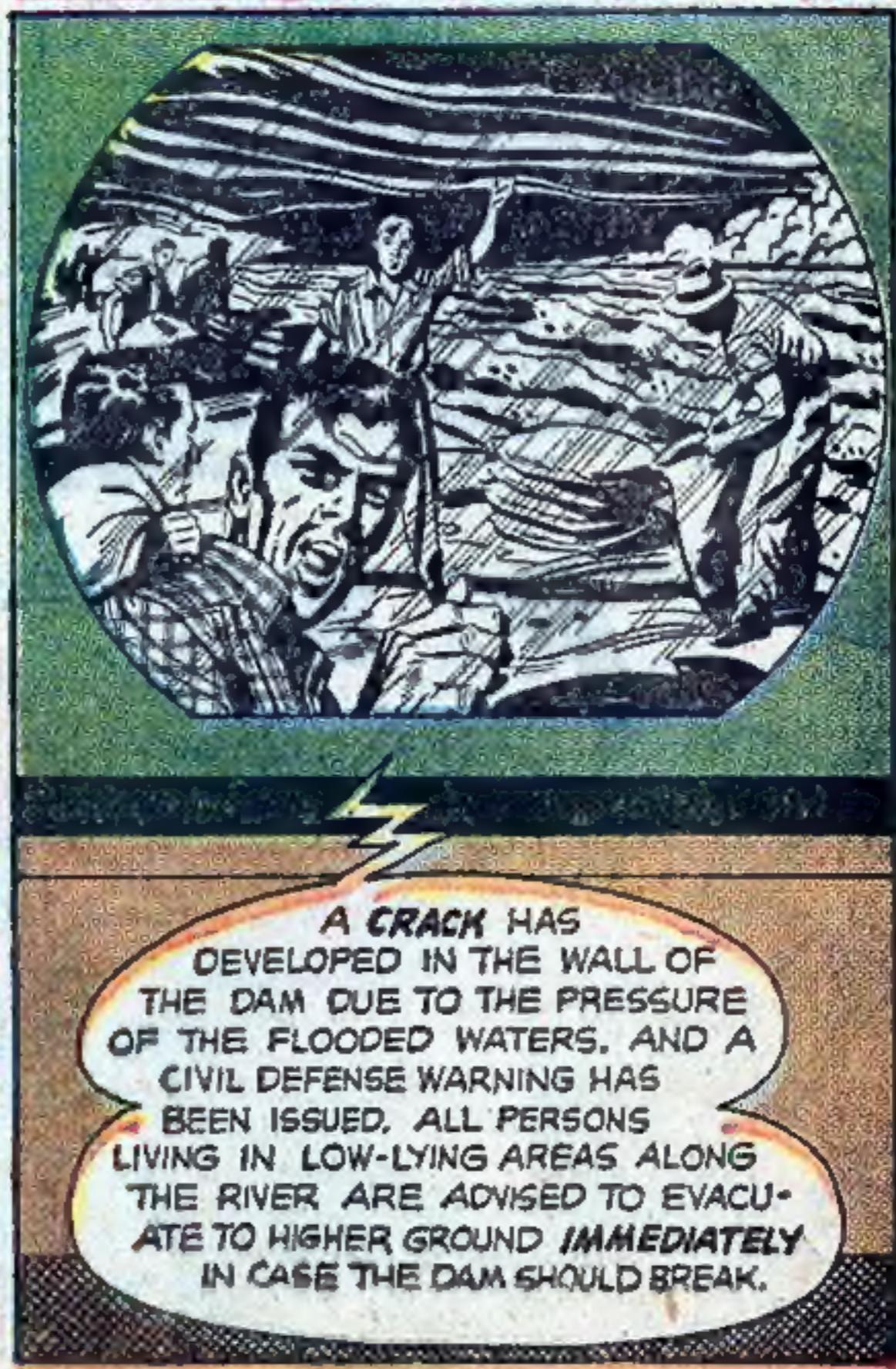
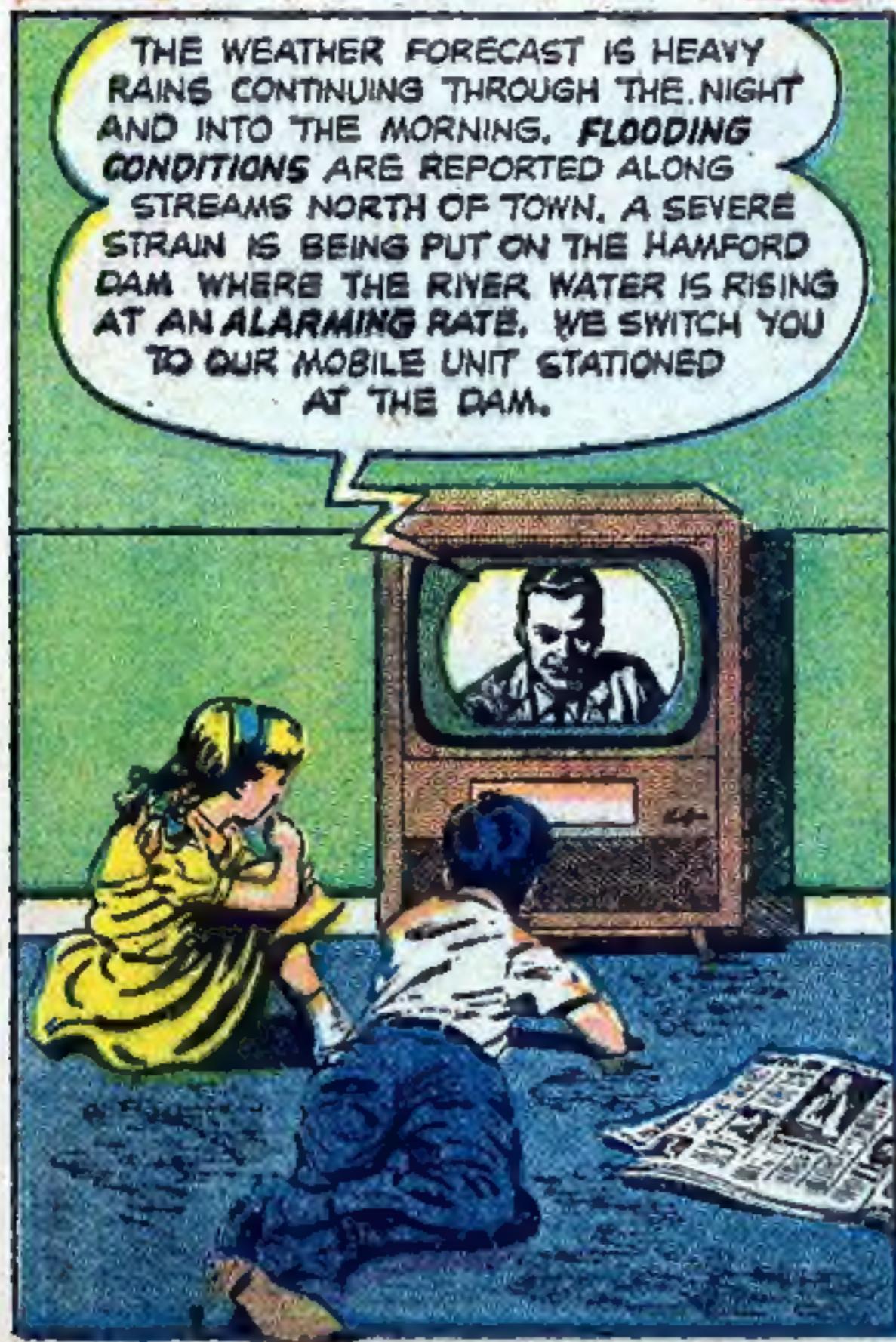


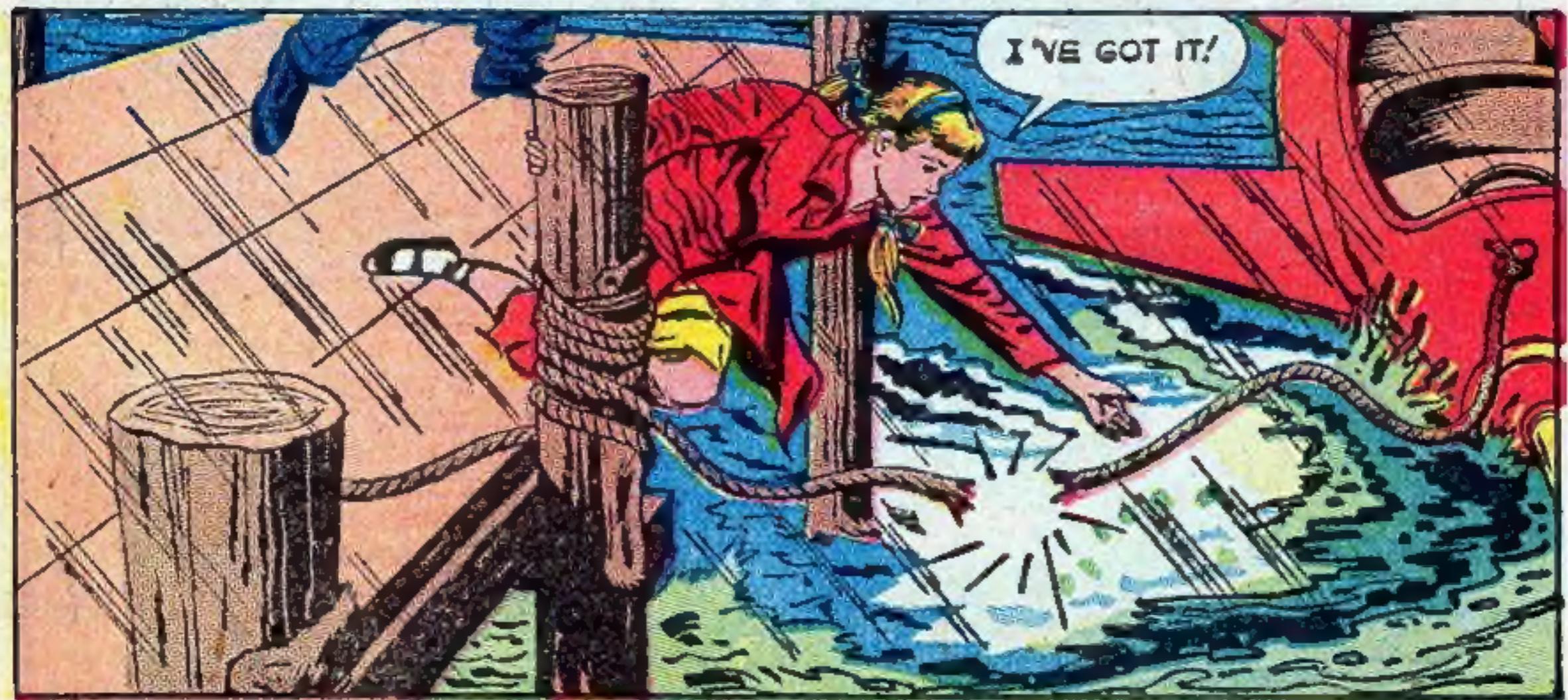
I HATE TO INTERRUPT, HARRY,
BUT IT LOOKS AS IF WE'RE IN FOR A
BAD STORM. I THINK WE'D BETTER
LEAVE BEFORE IT GETS ANY WORSE.
THE MEN'S CLUB WOULD **NEVER** FOR-
GIVE ME IF THE CHIEF AFTER-
DINNER SPEAKER TURNED UP LATE.

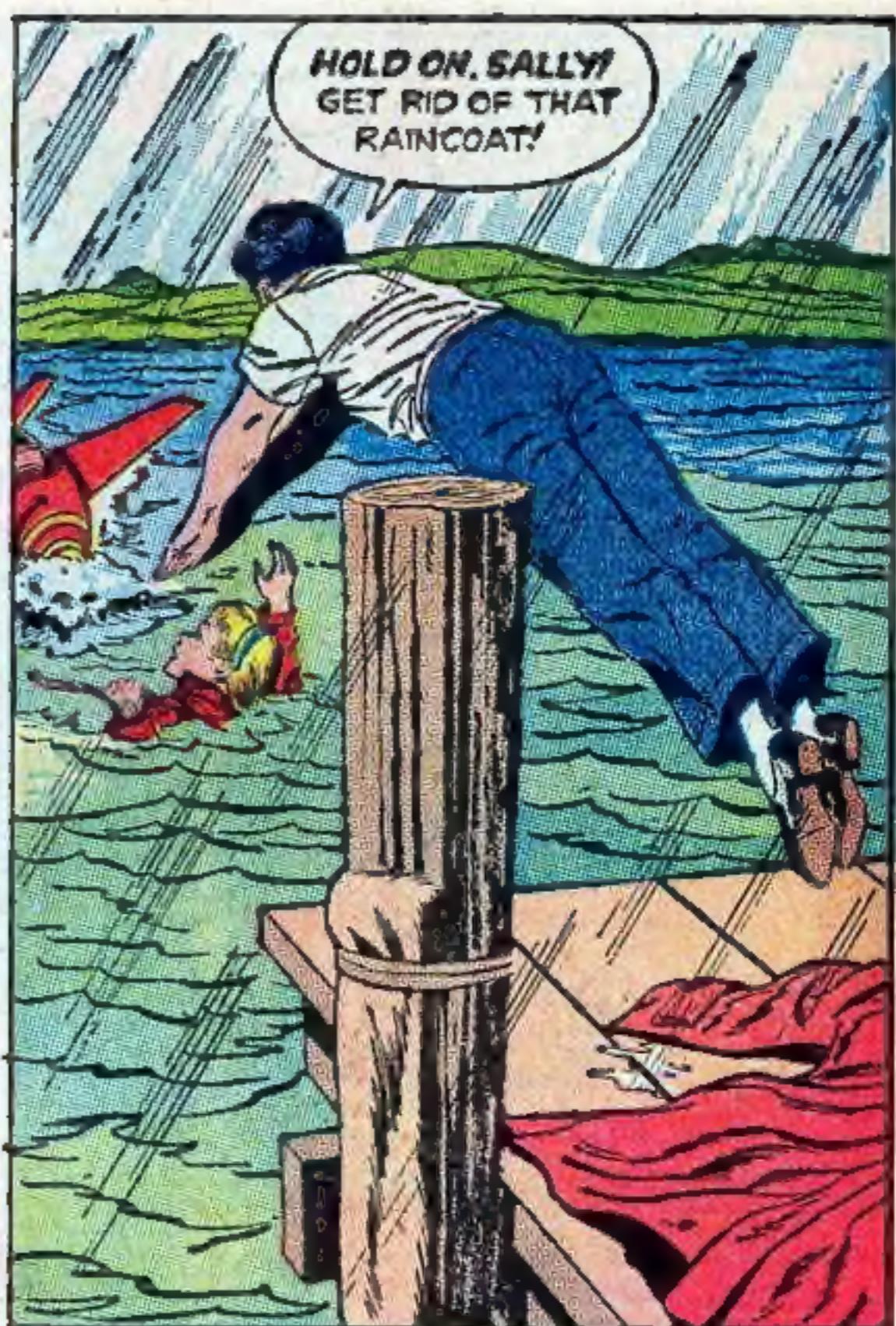


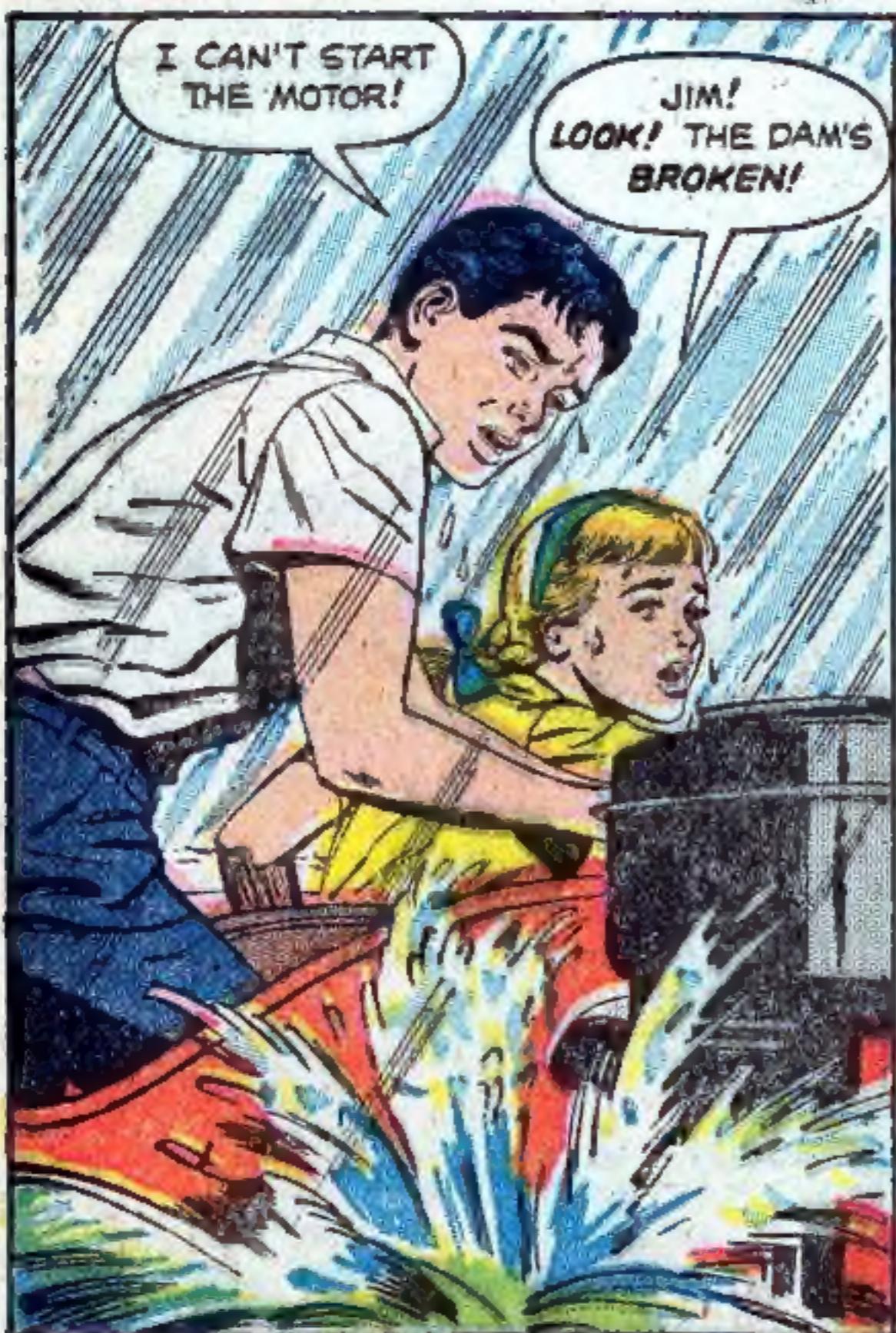
YOU'VE CERTAINLY HAD
MORE THAN YOUR SHARE
OF RAIN UP HERE.

I'LL SAY. THAT
DOWNPOUR TEN DAYS
AGO **SATURATED** THE LAND
TO THE NORTH, AND THE RAINS
SINCE HAVE SENT A LOT OF
THE BROOKS AND CREEKS
OVER THEIR BANKS.









BACK IN CENTERVILLE, MAYOR BROWN IS DIRECTING THE CITY'S EMERGENCY DISASTER PLAN...



EMERGENCY INSTRUCTIONS ARE GIVEN TO THE PEOPLE OVER SOUND TRUCKS DRIVING THROUGH THE STREETS...



FOLLOWING THE MAYOR'S CONFERENCE,
THE TOTAL RESOURCES OF THIS
COMMUNITY ARE MOBILIZED.

BUT DAYLIGHT GIVES WAY
TO THE BLACKNESS OF
NIGHT, AND JIM AND
SALLY ARE STILL NOT
PICKED UP!

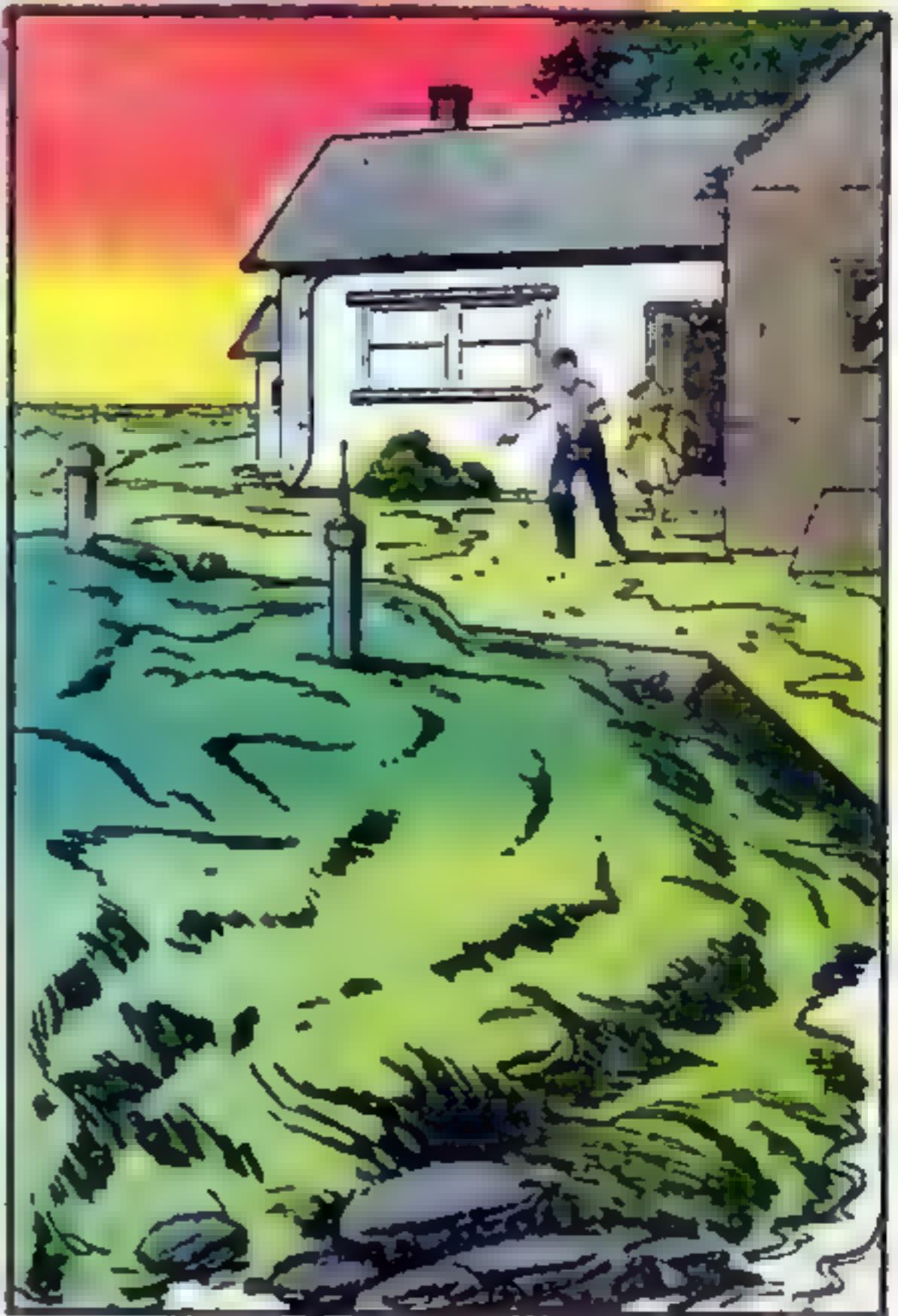
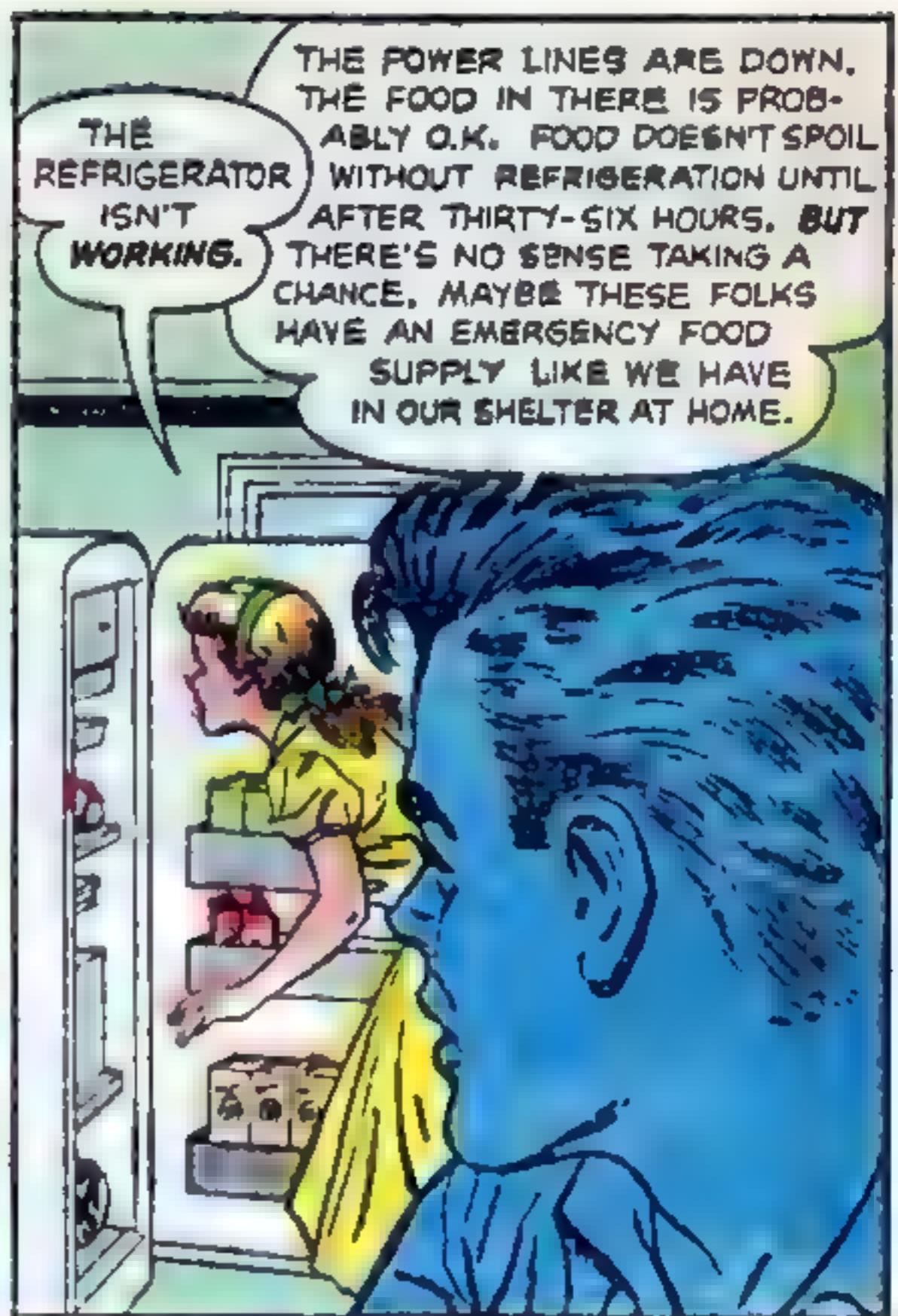
TOWARD DAWN...

WE CAN GO TO
THAT HOUSE IF I CAN
GET US TO SHORE!

MADE
IT!

LET'S
PULL THE BOAT
UP AND HEAD FOR
THE HOUSE.

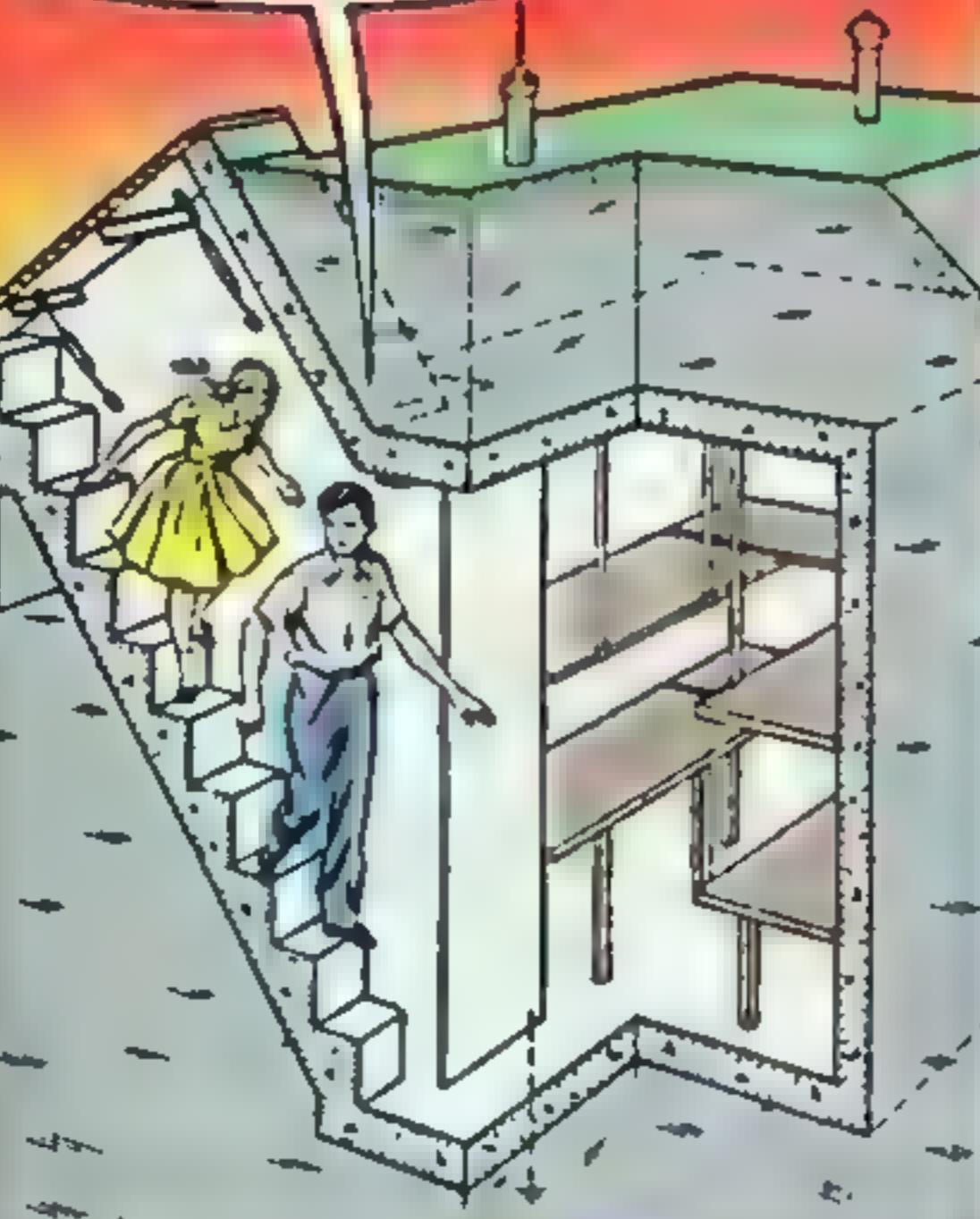
THE CHANCES ARE THE
PEOPLE WHO LIVE HERE
HAVE BEEN EVACUATED.
BUT MAYBE WE CAN
FIND SOMETHING TO
EAT. I'M STARVED.



LET'S HOPE THEY HAVEN'T OVERLOOKED THE FOOD DEPARTMENT.

THE SHELTER IS OUTFITTED WITH A 7-DAY SUPPLY OF EMERGENCY FOOD AND WATER, BATTERY-POWERED RADIO, FLASHLIGHTS, BLANKETS, FIRST-AID KIT AND THE OTHER ESSENTIAL SUPPLIES.

BOY! IT IS WELL-EQUIPPED. NOW--LET'S EAT!

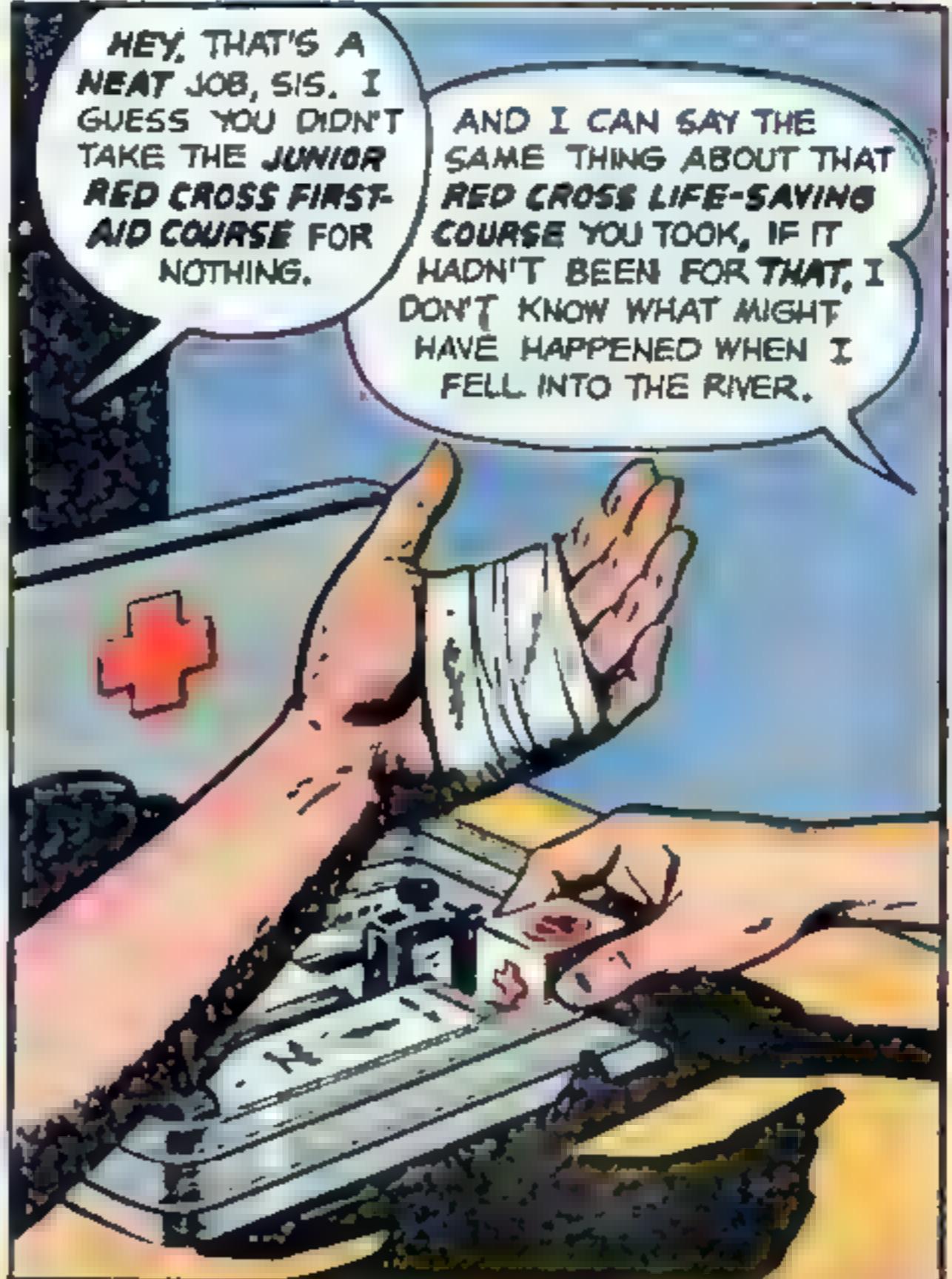


GET BUSY WITH THE CAN OPENER, WILL YOU, SALLY? I CAN'T WORK ONE VERY WELL. I CUT MY HAND ON THE CAR DOOR LAST NIGHT.

JIM! WHY DON'T YOU SAY SOMETHING ... I'LL BANDAGE IT.

HEY, THAT'S A NEAT JOB, SIS. I GUESS YOU DIDN'T TAKE THE JUNIOR RED CROSS FIRST-AID COURSE FOR NOTHING.

AND I CAN SAY THE SAME THING ABOUT THAT RED CROSS LIFE-SAVING COURSE YOU TOOK, IF IT HADN'T BEEN FOR THAT, I DON'T KNOW WHAT MIGHT HAVE HAPPENED WHEN I FELL INTO THE RIVER.



A FEW MOMENTS LATER...

DOES THIS TASTE GOOD!

I'LL SAY...WE CAN THANK OUR LUCKY STARS THIS FAMILY WAS PREPARED FOR A DISASTER. I ONLY HOPE MOM AND DAD AREN'T TOO WORRIED ABOUT US.

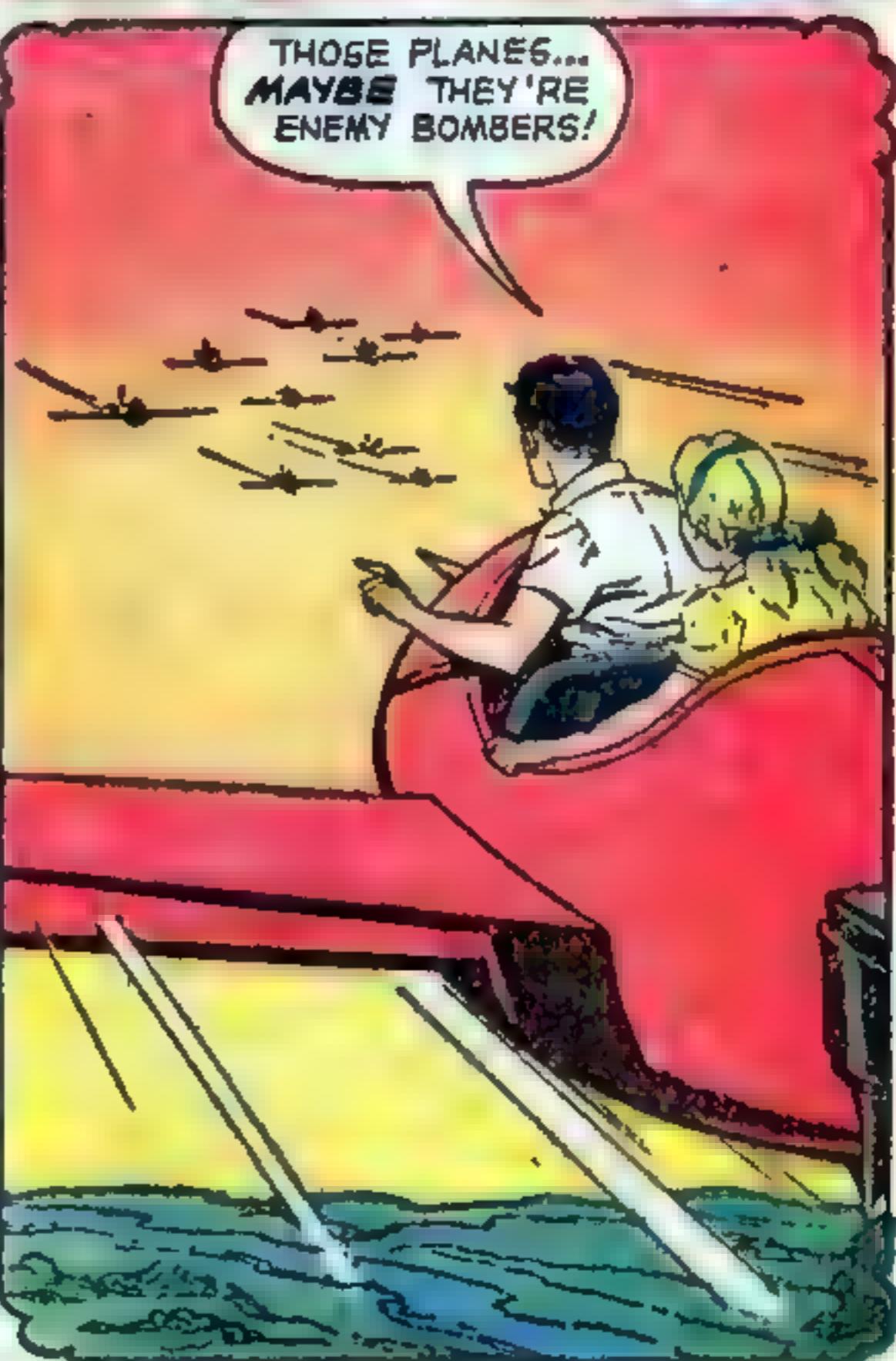
SCARCELY ABLE TO KEEP THEIR EYES OPEN, JIM AND SALLY ROLL UP IN BLANKETS AND ARE SOON ASLEEP.



JIM BEGINS TO DREAM...

SALLY! WE'RE TAKING OFF! MY BOAT HAS TURNED INTO A REAL ROCKET!

WHEEEEE!!



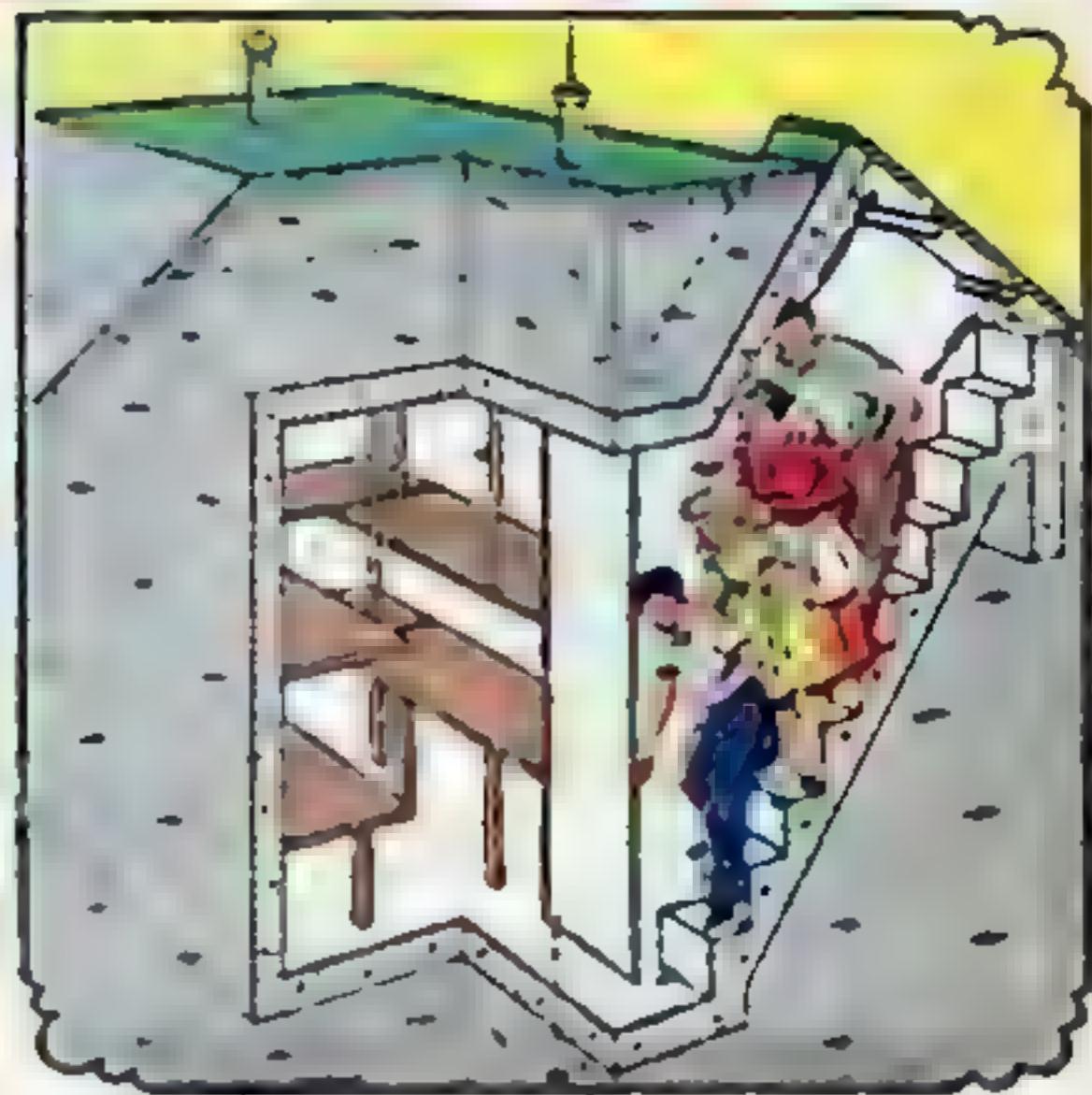
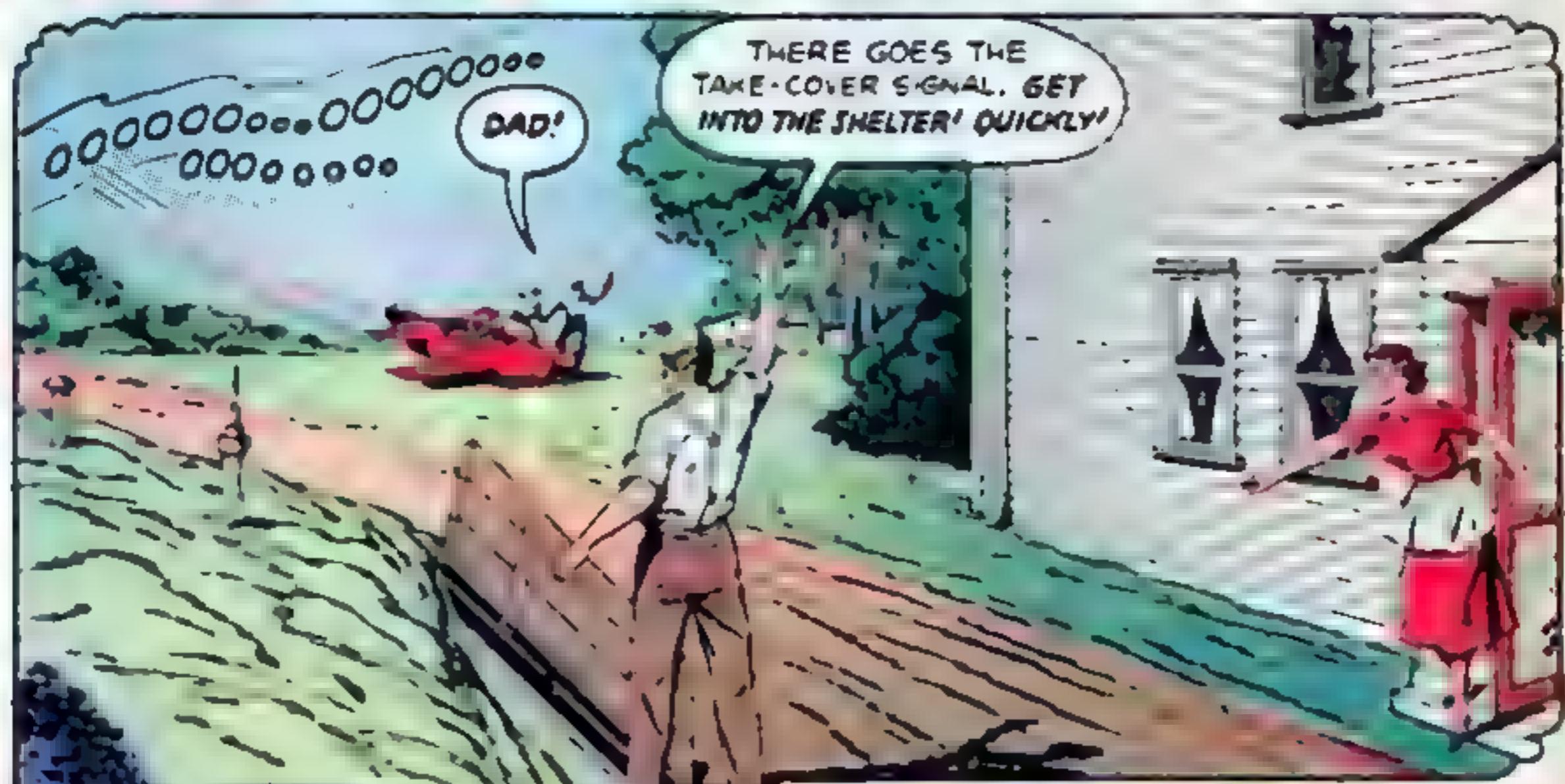
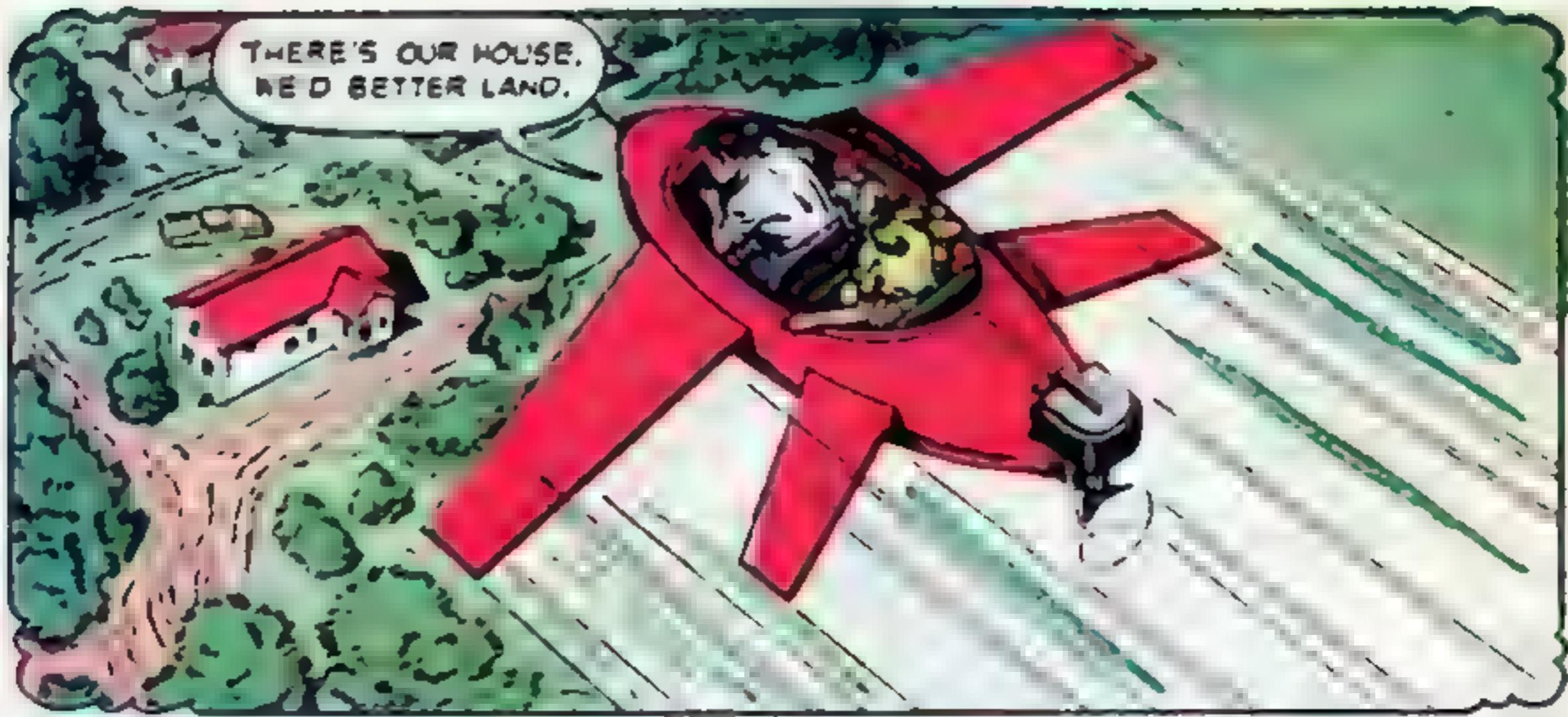
MAYBE THE RADAR SCREENS HAVE
PICKED 'EM UP OR THEY'VE BEEN REPORTED BY
THE GROUND OBSERVER CORPS-- BUT WE'VE GOT
TO GET BACK WITH A WARNING!



JIM AND SALLY
SPEED OVER A
LARGE CITY...

WARNING OF THE COMING
ATTACK MUST HAVE BEEN GIVEN,
SALLY. THEY'RE TAKING ACTION
IN MIDDLE CITY.

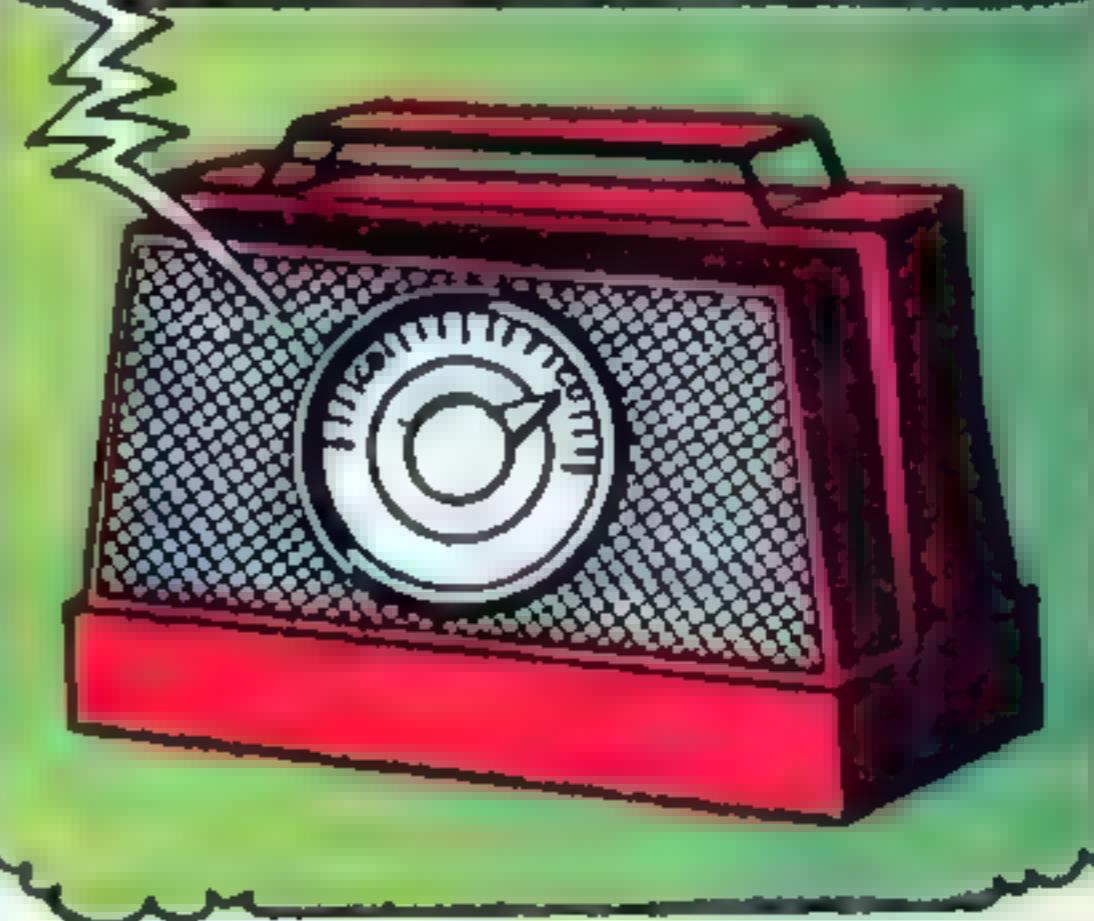
SOME OF
THOSE PEOPLE
WILL BE COMING
OUT TO OUR
TOWN.



THANK GOODNESS,
YOU CHILDREN
ARE BACK!

SWITCH
ON THE RADIO,
JIM!

ATTENTION, PLEASE! THIS IS A NATIONAL
EMERGENCY! THE AIR FORCE HAS ANNOUNCED
THAT ENEMY AIRCRAFT ARE APPROACHING THIS
COMMUNITY. AN ATTACK IS IMMINENT. GO TO THE
NEAREST AVAILABLE SHELTER AND STAY THERE!
THIS IS NOT A TEST! THIS COMMUNITY MAY BE
UNDER ENEMY AIR ATTACK WITHIN MINUTES. GO
QUICKLY BUT CALMLY TO THE NEAREST SHELTER.
TAKE A PORTABLE RADIO AND EMERGENCY FOOD
WITH YOU, IF POSSIBLE. OBEY YOUR AUTHORITIES.
FURTHER INSTRUCTIONS WILL COME TO YOU AT
640 OR 1240 ON YOUR RADIO DIAL. THIS
STATION IS NOW LEAVING THE AIR. KEEP
YOUR RADIO TUNED TO 640 OR 1240.



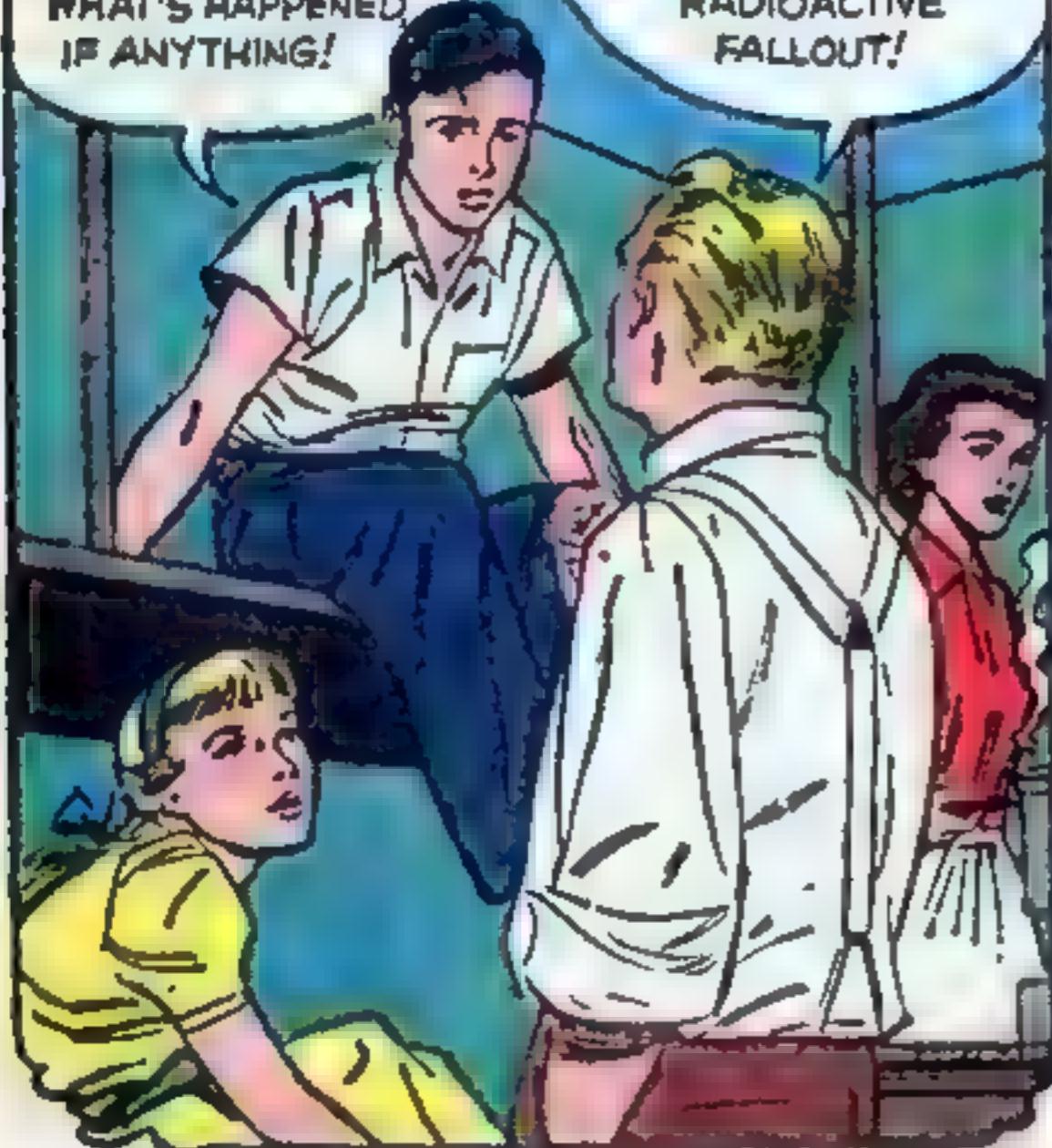
TIME PASSES...

WE'VE BEEN
HERE FOR HOURS
AND I MAVEN'T
HEARD ANY BOMB
EXPLOSIONS! LET'S
GO OUT AND SEE
WHAT'S HAPPENED
IF ANYTHING!

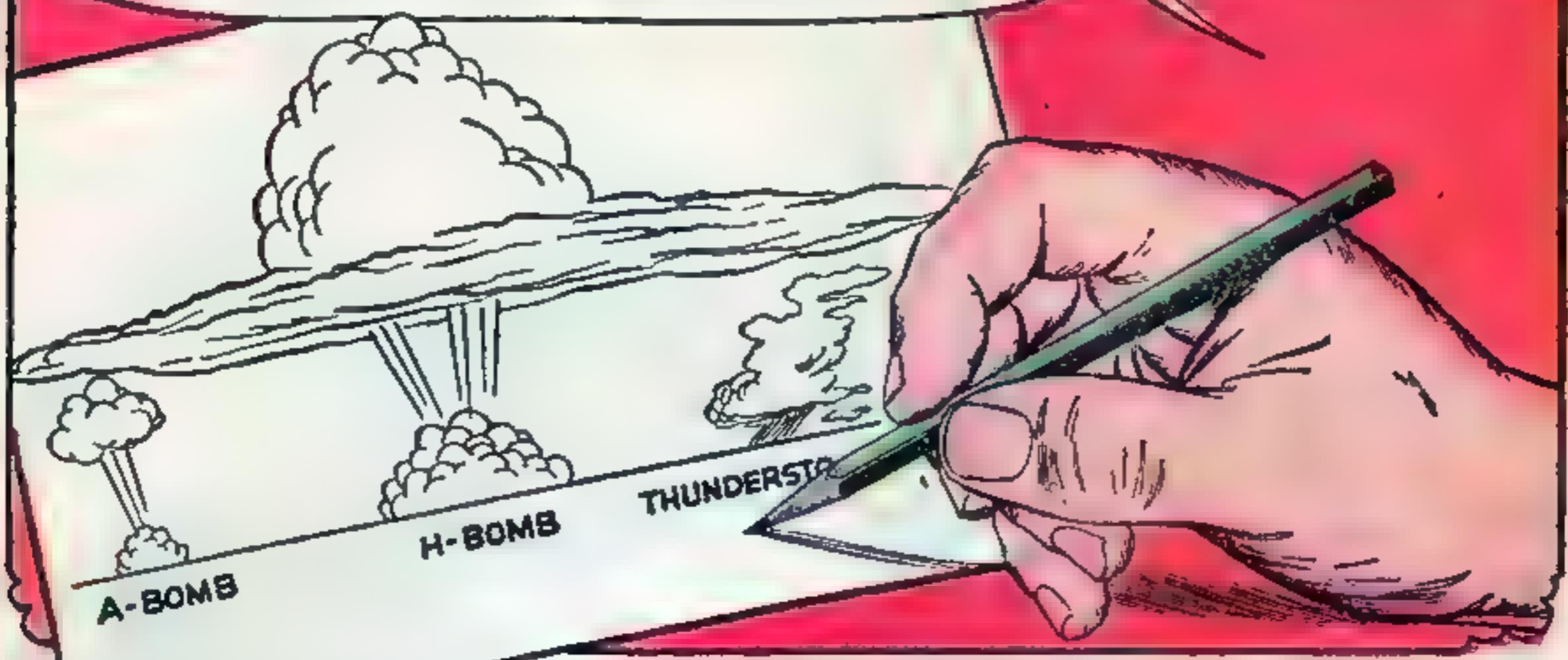
WE STAY RIGHT
HERE UNTIL WE GET
AN ALL CLEAR.
BOMBS COULD HAVE
FALLEN ON A TARGET
AREA MANY MILES
OFF--WE STILL MIGHT
BE IN DANGER FROM
RADIOACTIVE
FALLOUT!

JUST
WHAT IS THIS
FALLOUT, ANY-
WAY, DAD?

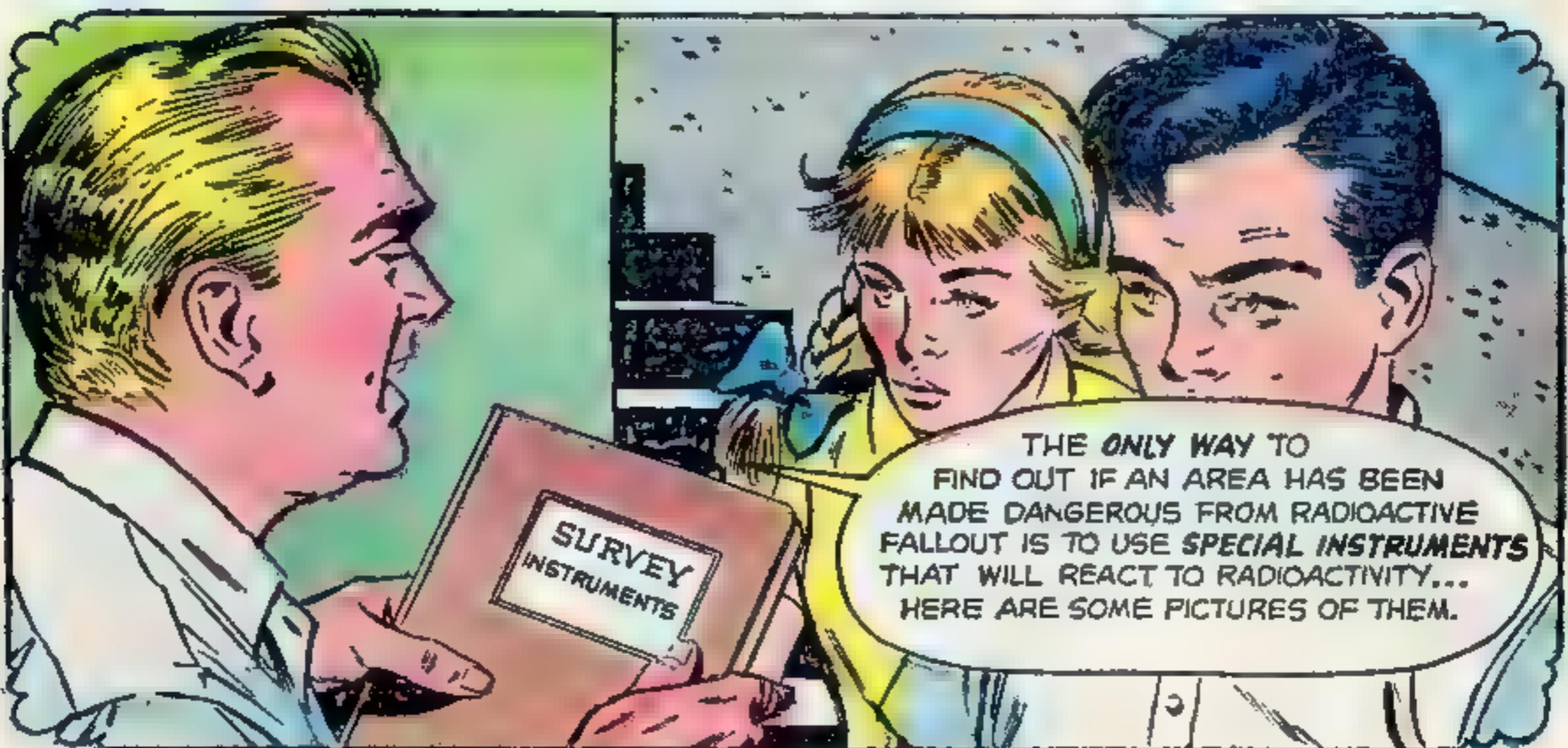
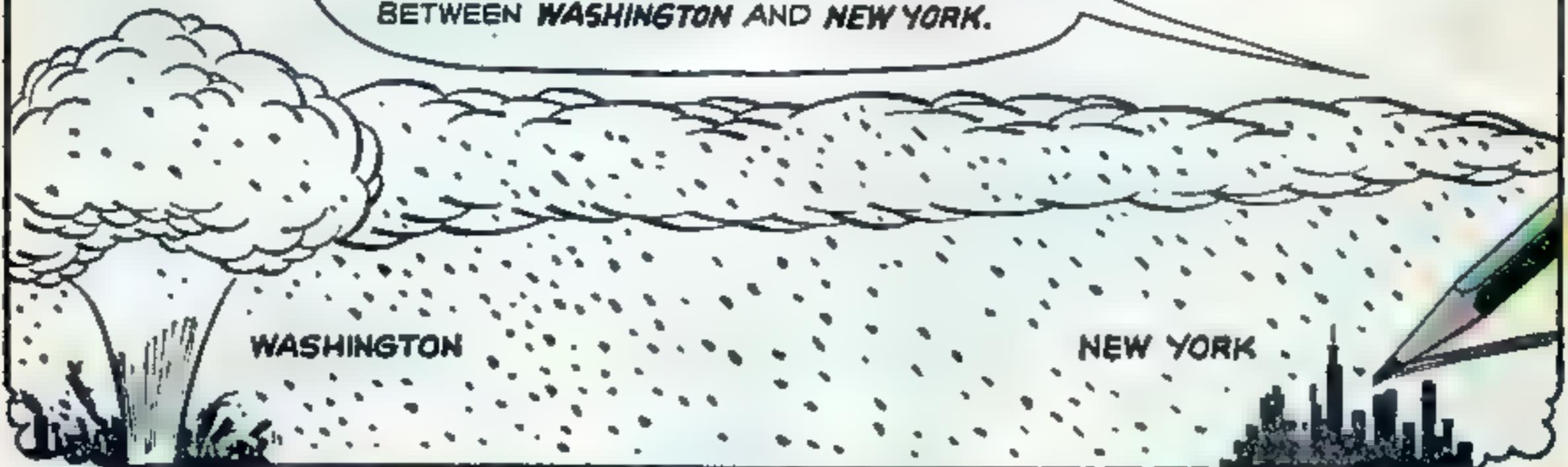
FALLOUT IS WHAT WE CALL
THE RADIOACTIVE PARTICLES
IN THE MUSHROOM CLOUD
WHEN AN H-BOMB EXPLODES
NEAR THE EARTH.



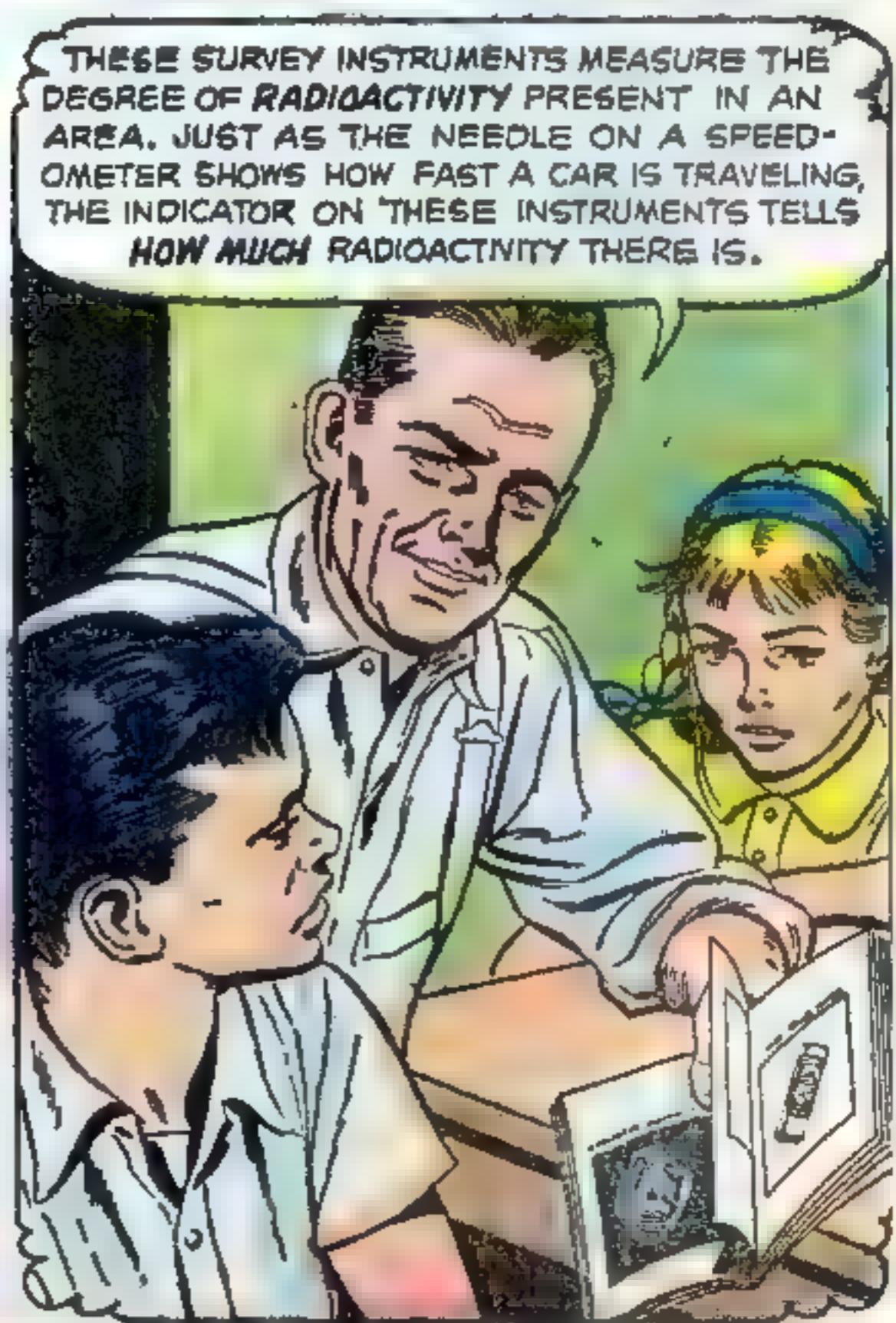
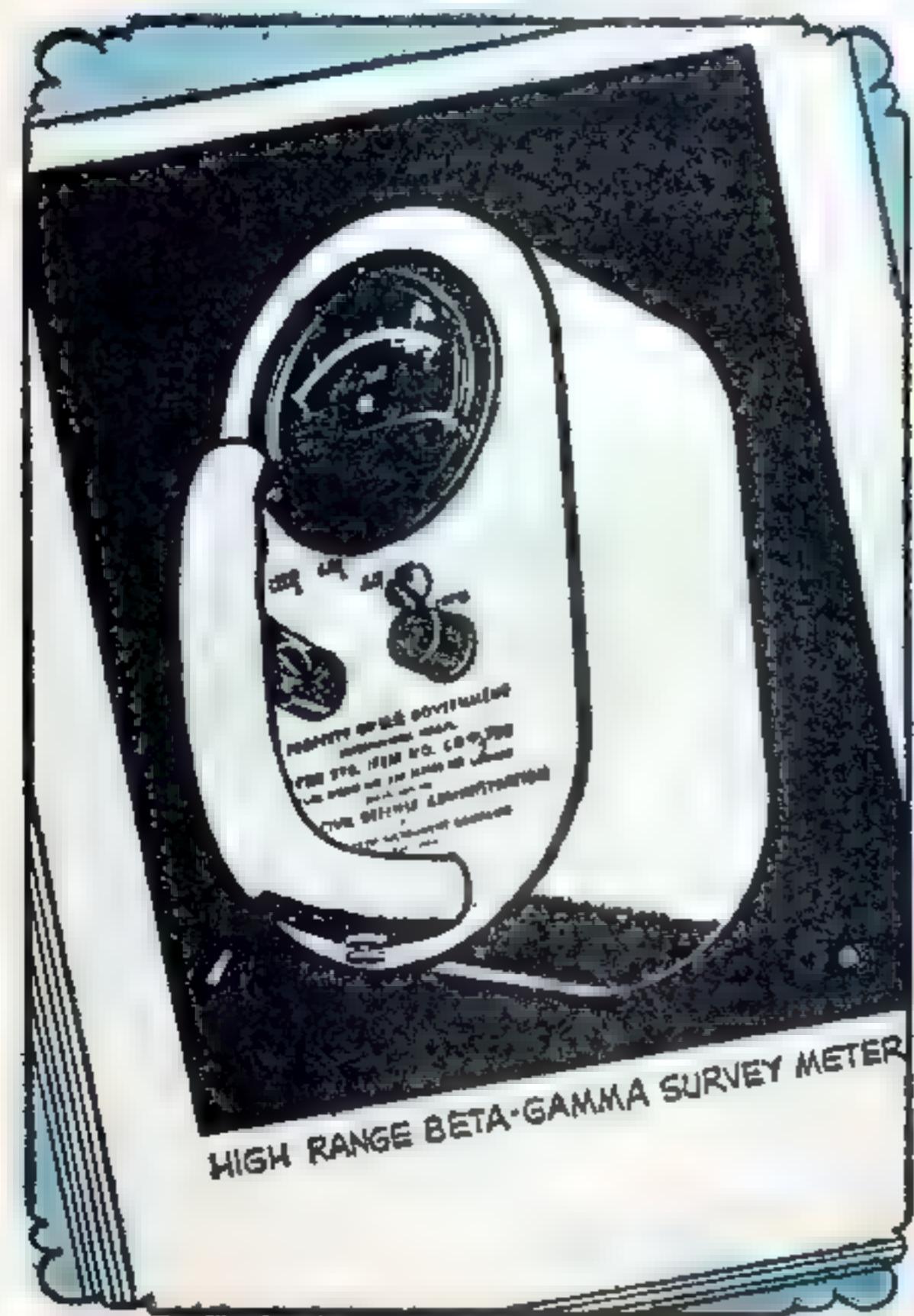
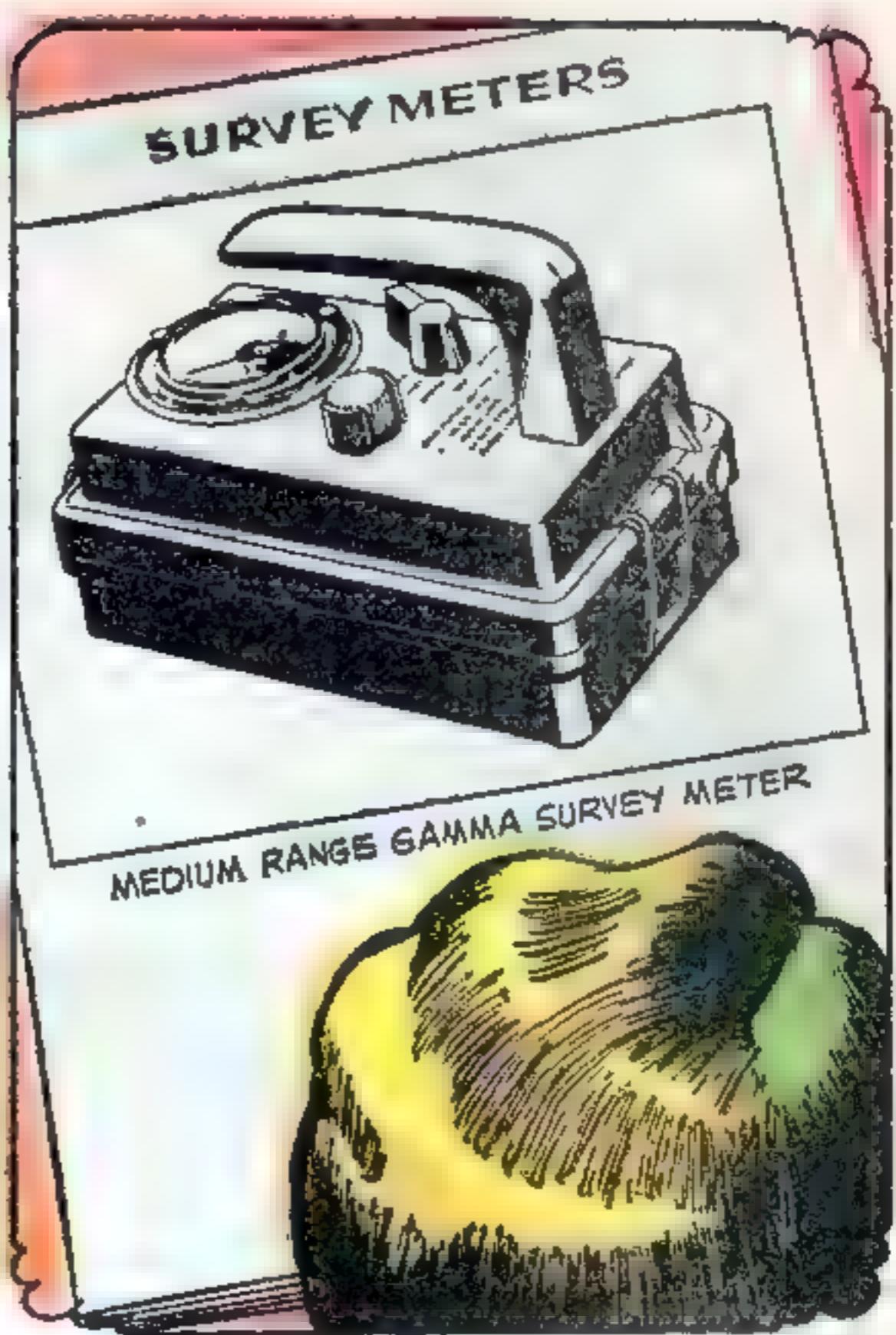
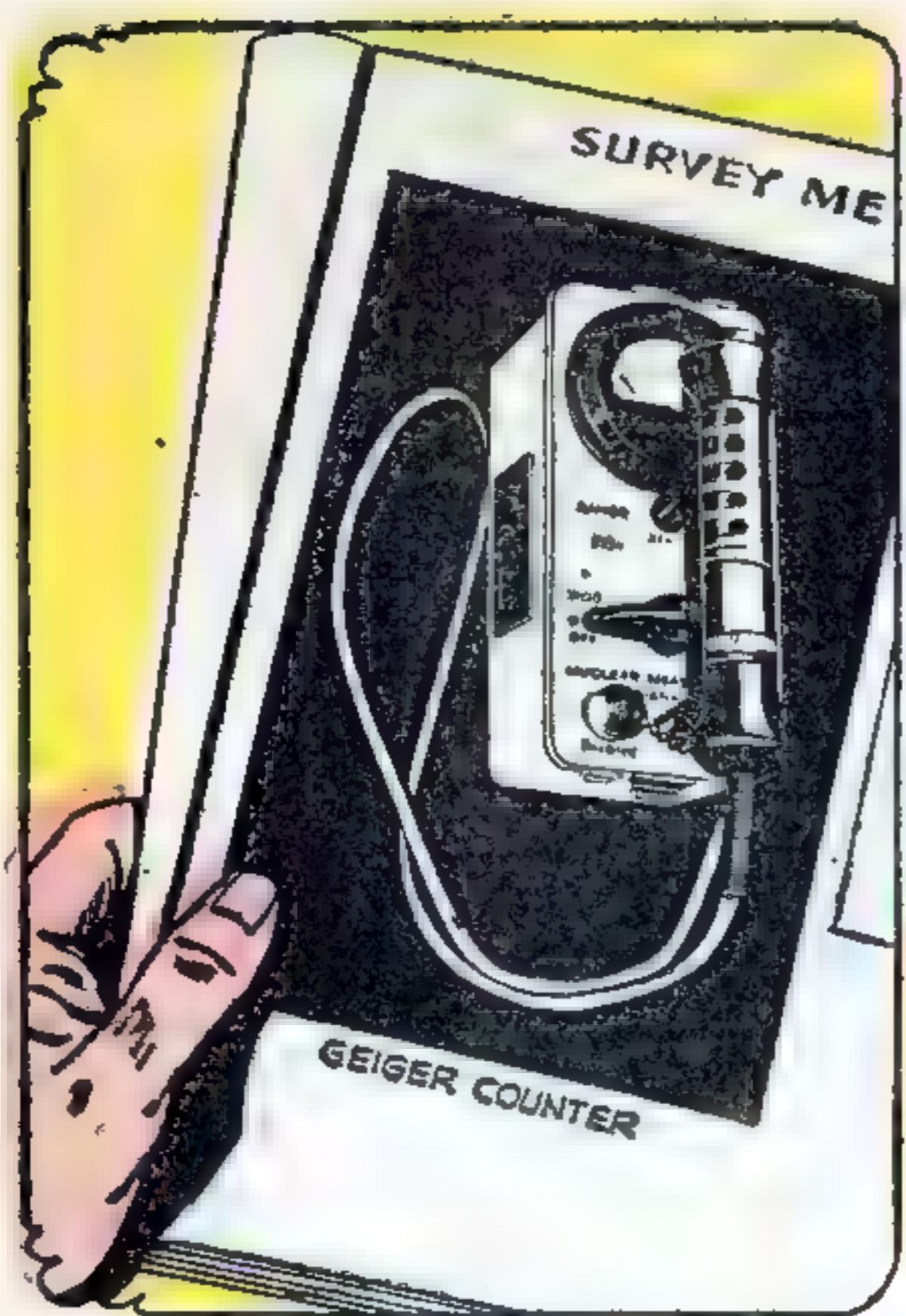
WHEN AN ATOMIC OR HYDROGEN BOMB IS EXPLODED CLOSE TO THE GROUND, THOUSANDS OF TONS OF EARTH AND ROCK ARE TURNED INTO PIECES AS SMALL AS DUST. THESE SMALL PIECES ARE SUCKED UPWARD IN A GREAT MUSHROOM CLOUD SOMETIMES TO A HEIGHT OF 80,000 FEET OR MORE.



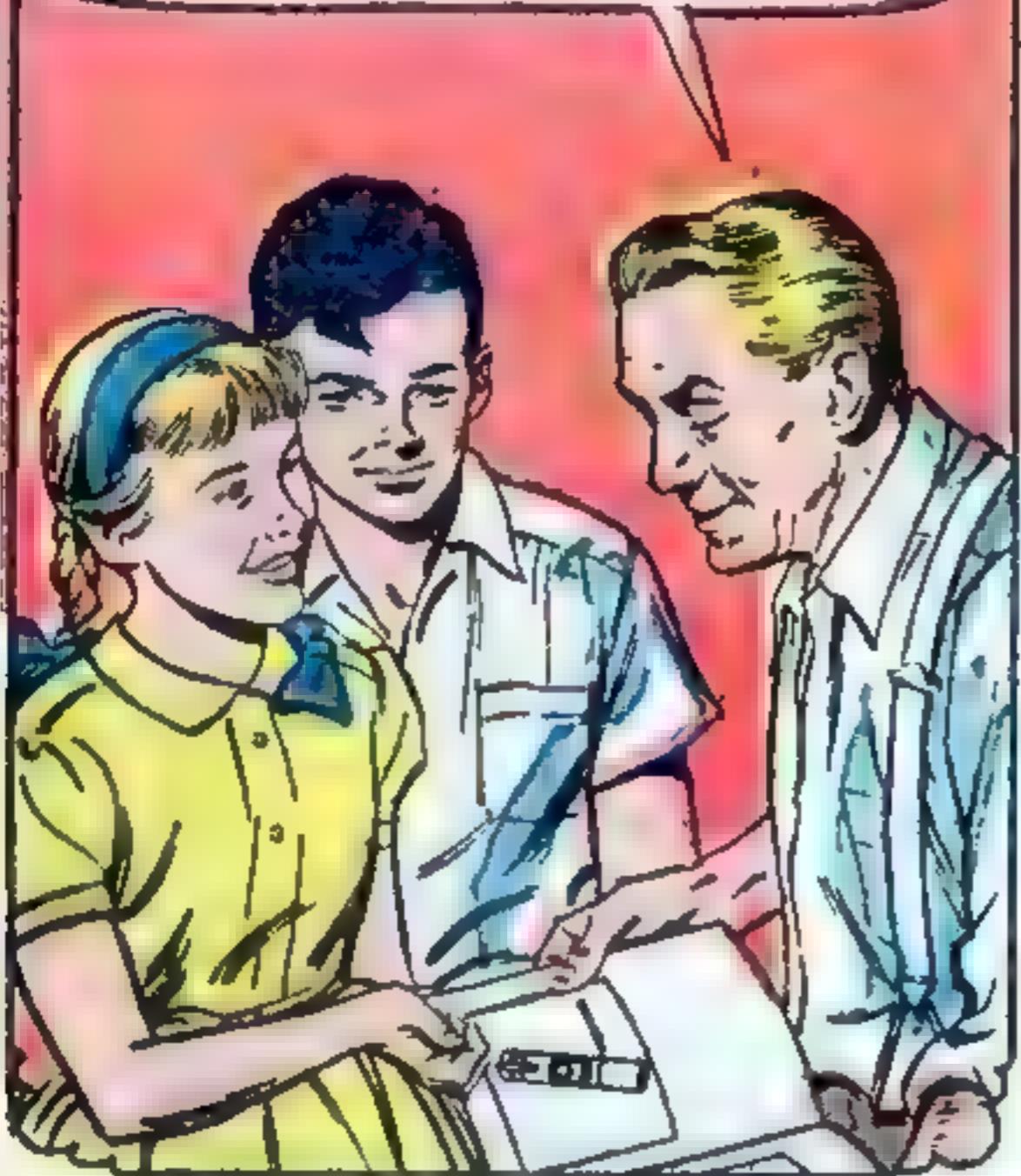
THE PARTICLES ARE THEN MADE RADIOACTIVE AND FALL BACK TO EARTH OVER A WIDE AREA. THEY CAN BE CARRIED GREAT DISTANCES. FOR INSTANCE, IF YOU ARE AS MUCH AS 200 MILES DOWNWIND FROM THE SCENE OF SUCH AN EXPLOSION YOU CAN BE EXPOSED TO THE DANGERS OF RADIOACTIVE FALLOUT THAT'S ROUGHLY THE DISTANCE BETWEEN WASHINGTON AND NEW YORK.



THE ONLY WAY TO FIND OUT IF AN AREA HAS BEEN MADE DANGEROUS FROM RADIOACTIVE FALLOUT IS TO USE SPECIAL INSTRUMENTS THAT WILL REACT TO RADIOACTIVITY... HERE ARE SOME PICTURES OF THEM.



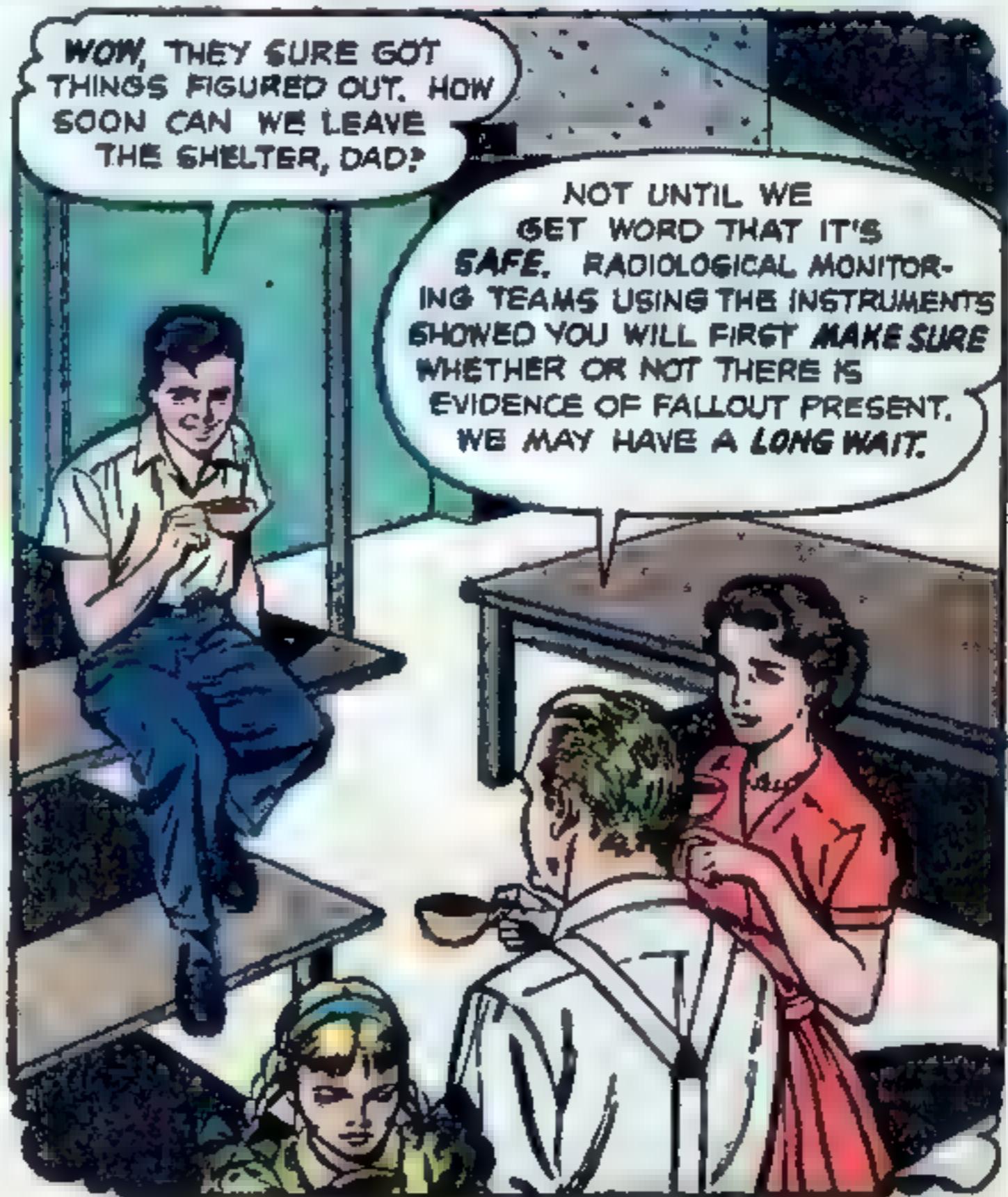
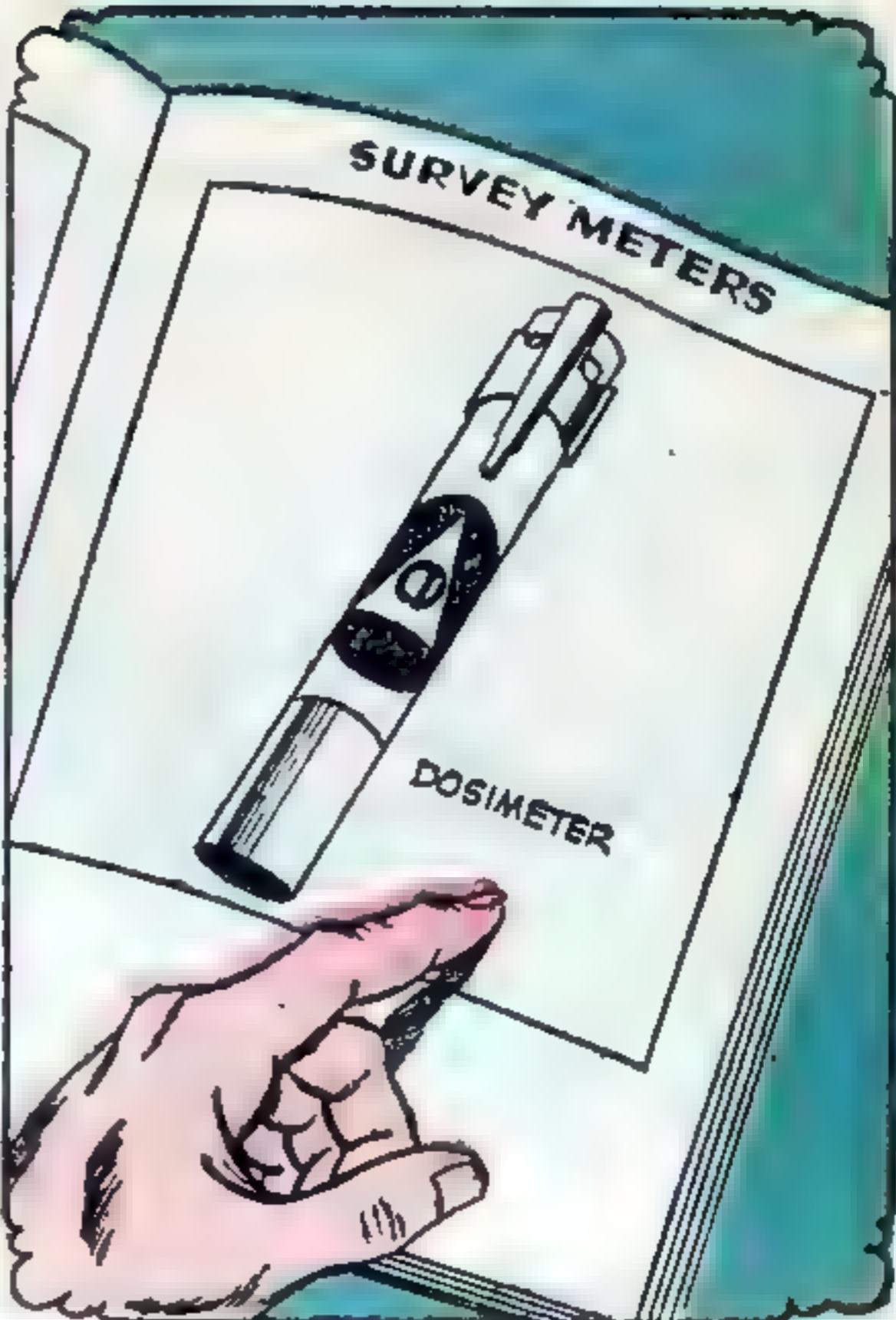
NOW, IF YOU HAPPENED TO BE IN AN AREA THAT HAD BEEN MADE RADIOACTIVE BY FALLOUT, YOU WOULD NEED TO KNOW HOW MUCH RADIACITY YOU YOURSELF HAD ABSORBED. THERE IS ANOTHER INSTRUMENT THAT MEASURES THIS. IT'S CALLED A DOSIMETER.

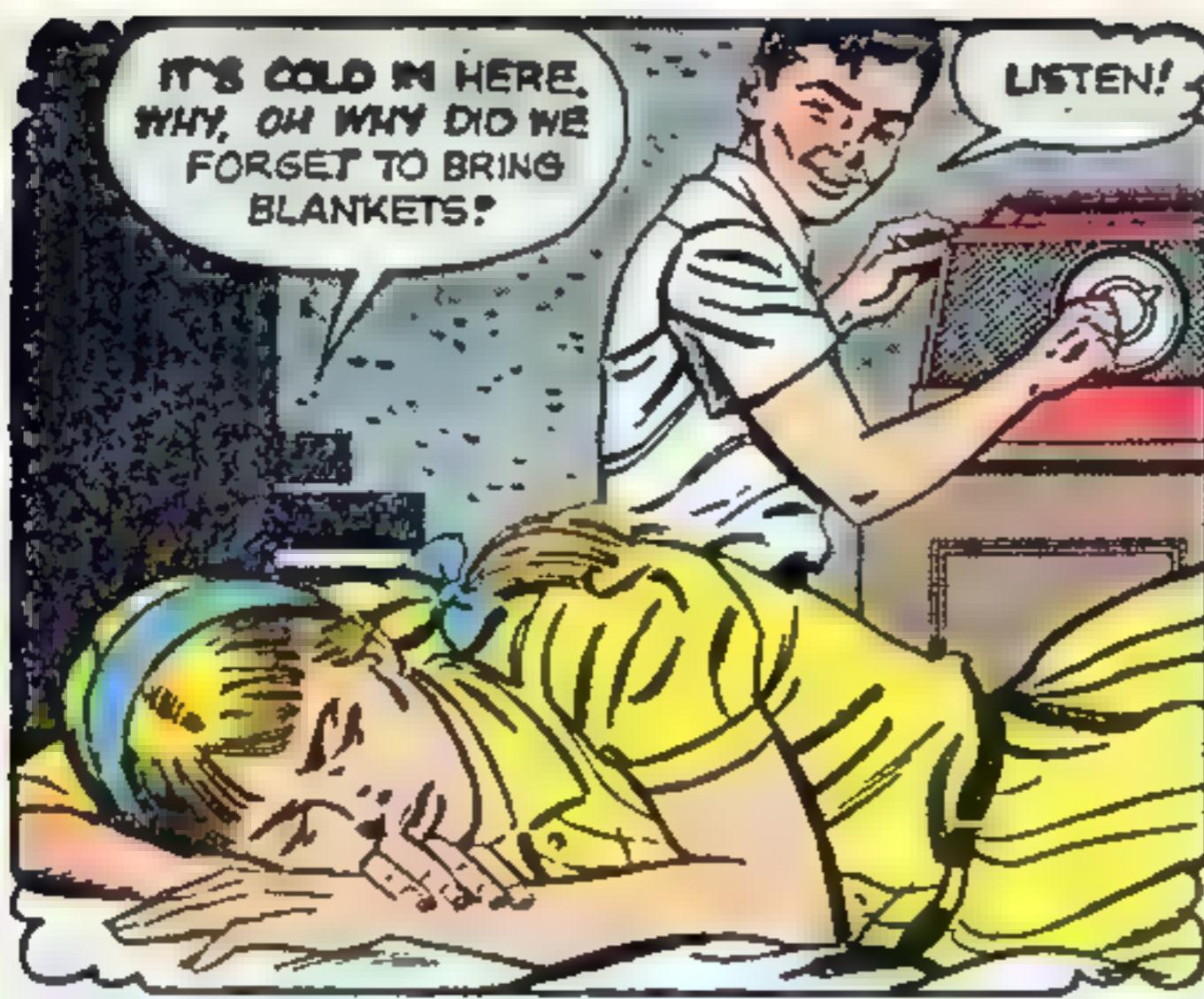


THE DOSIMETER COULD BE COMPARED TO THE MILEAGE COUNTER ON A CAR WHICH TELLS HOW FAR THE CAR HAS GONE. THE DOSIMETER TELLS HOW MUCH RADIACITY YOU HAVE TAKEN IN OR ABSORBED.

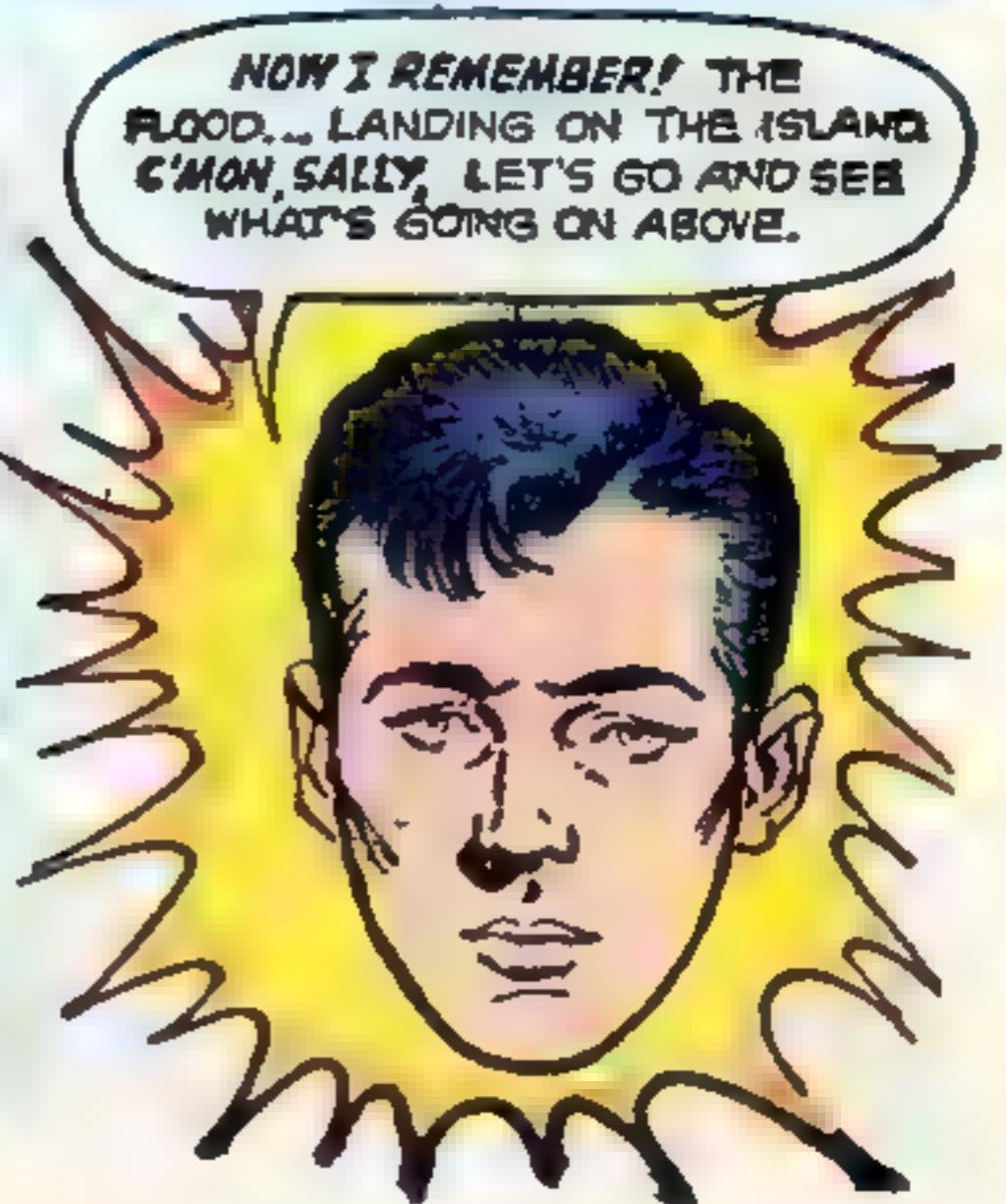
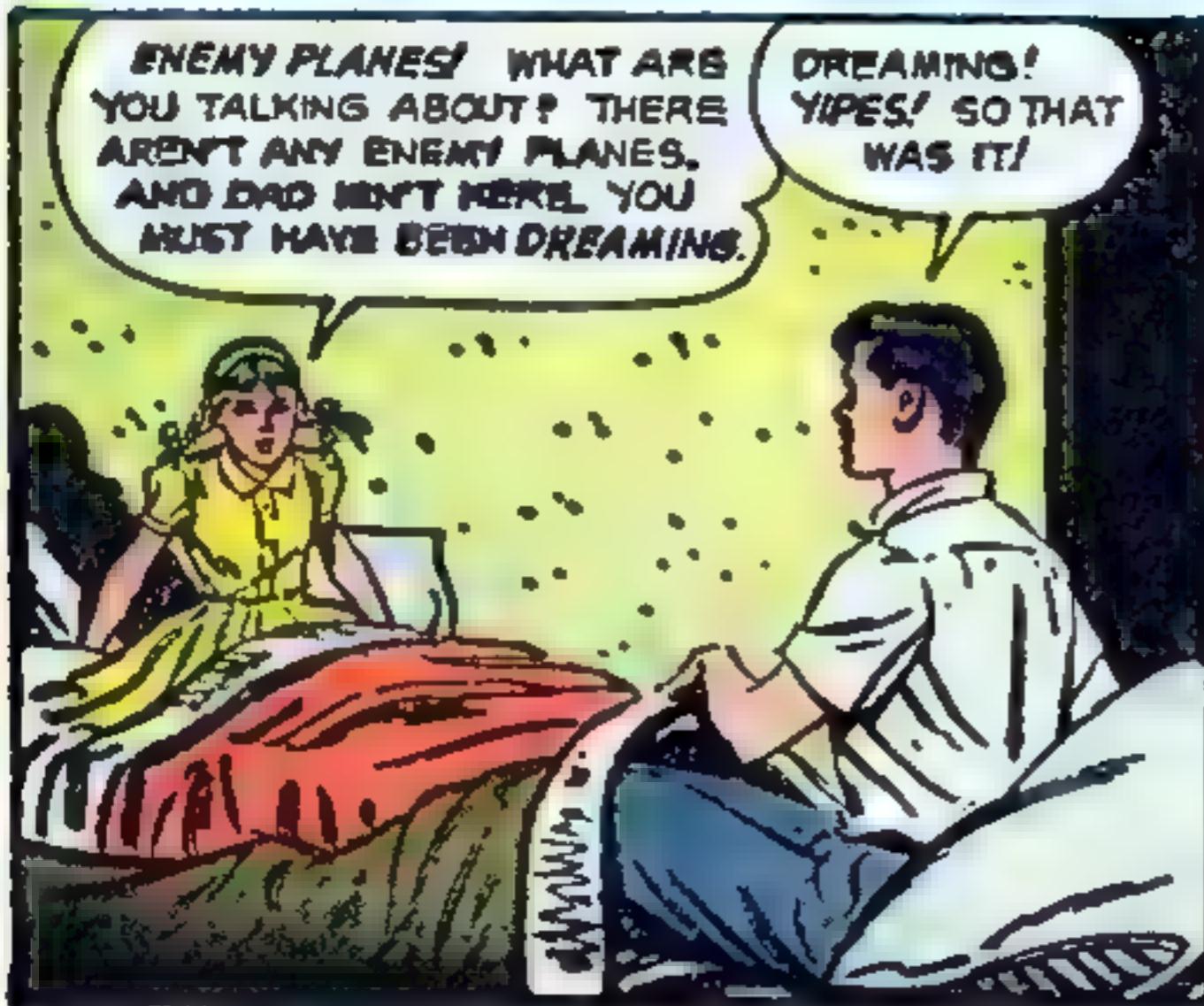
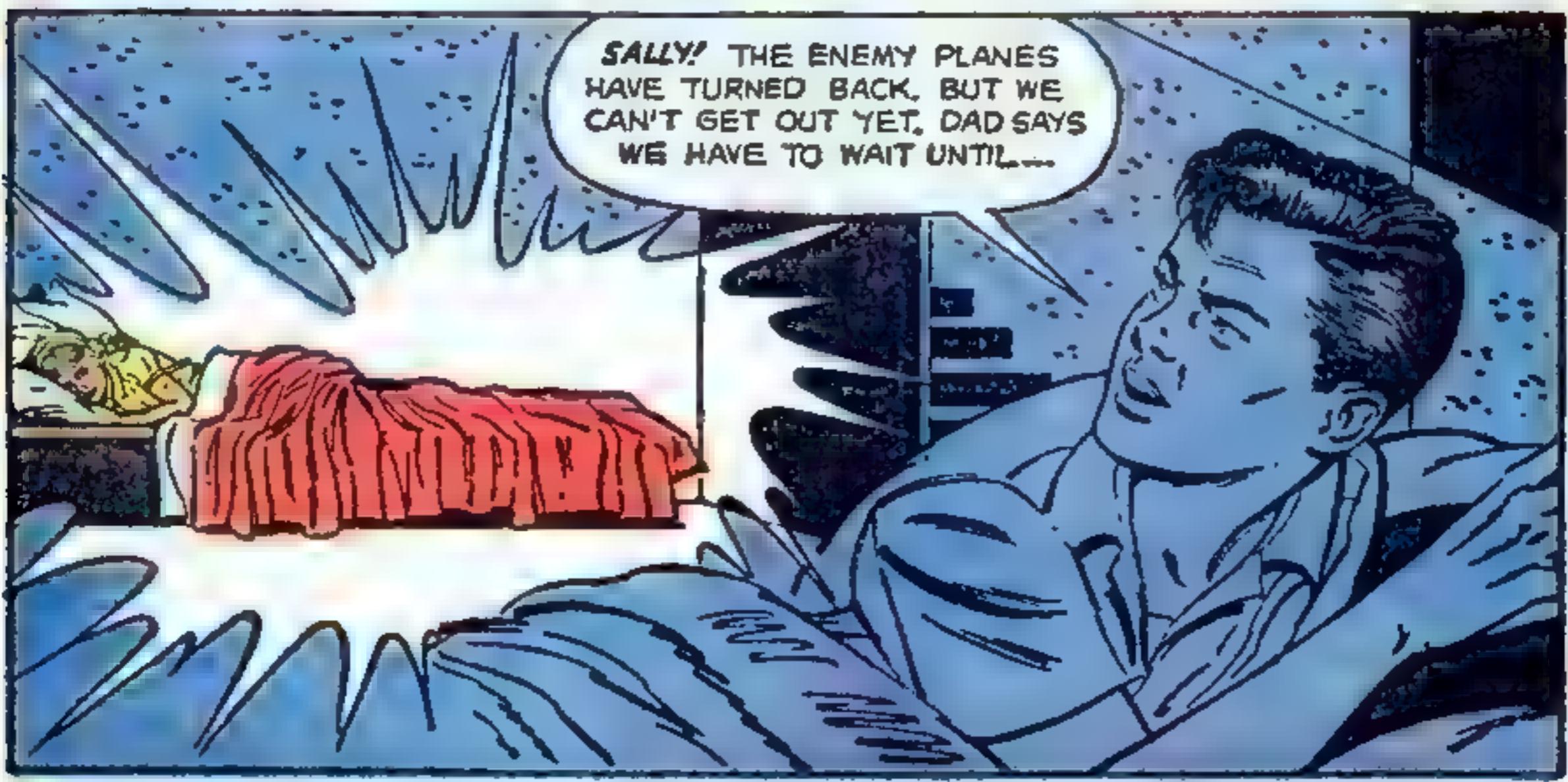
WOW, THEY SURE GOT THINGS FIGURED OUT. HOW SOON CAN WE LEAVE THE SHELTER, DAD?

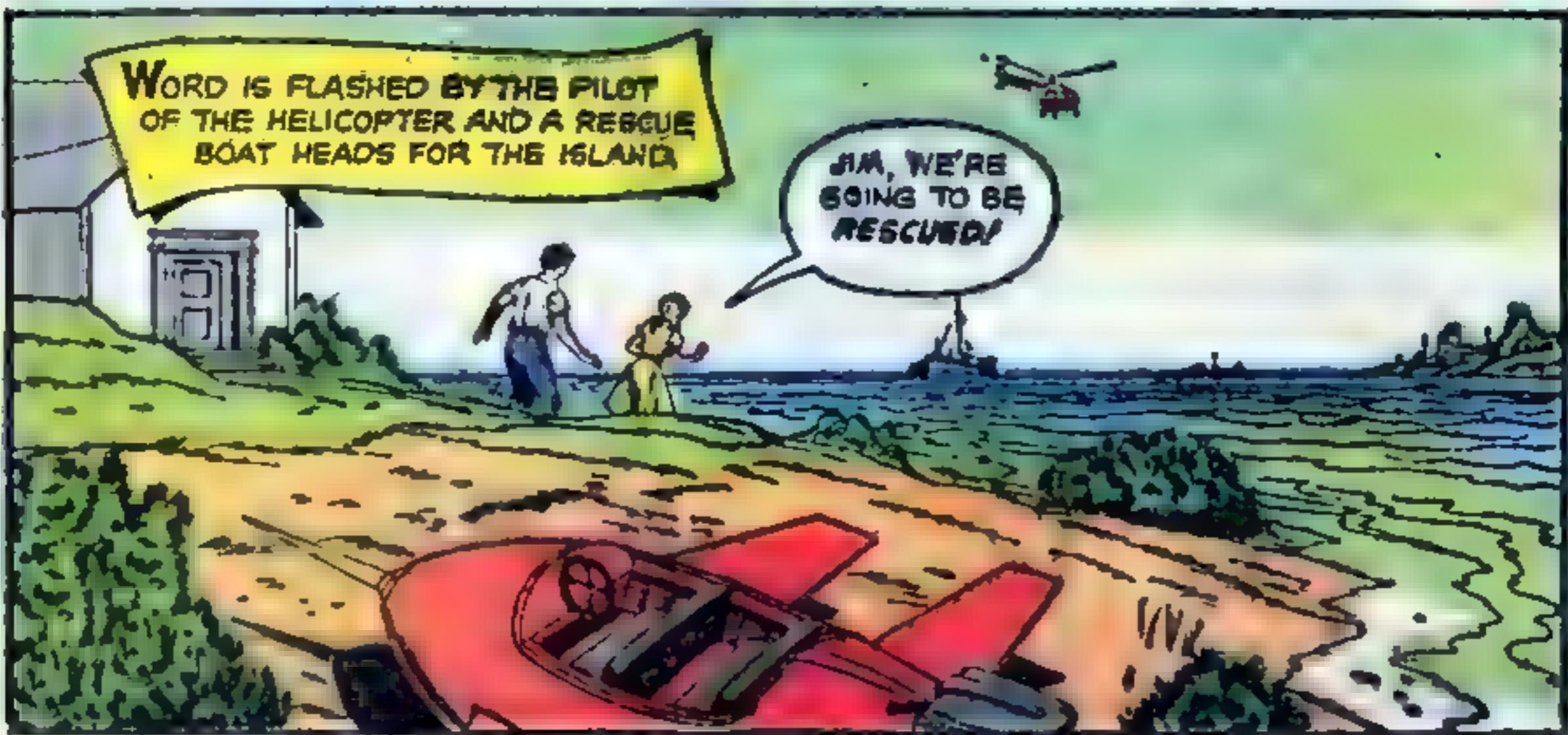
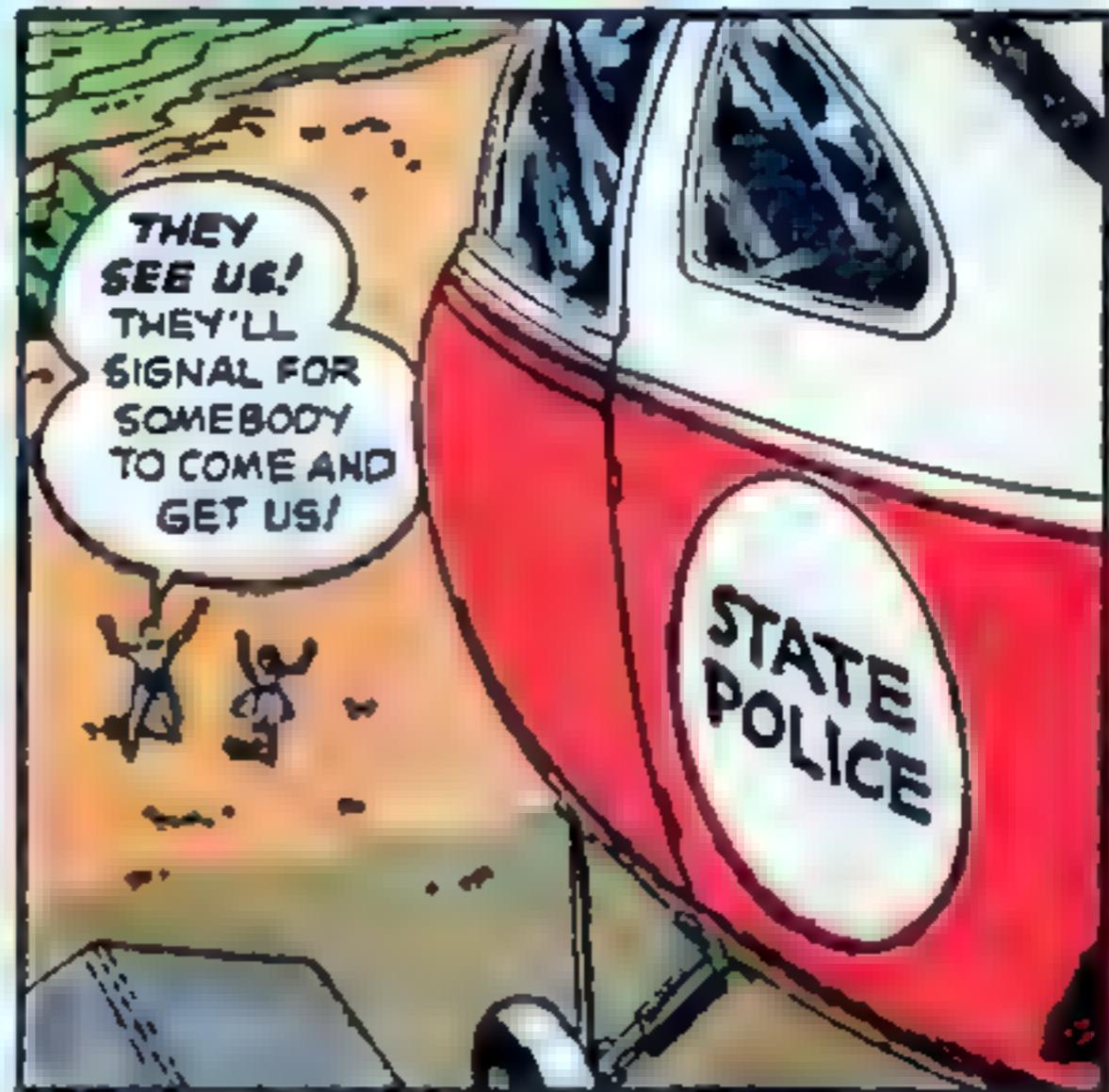
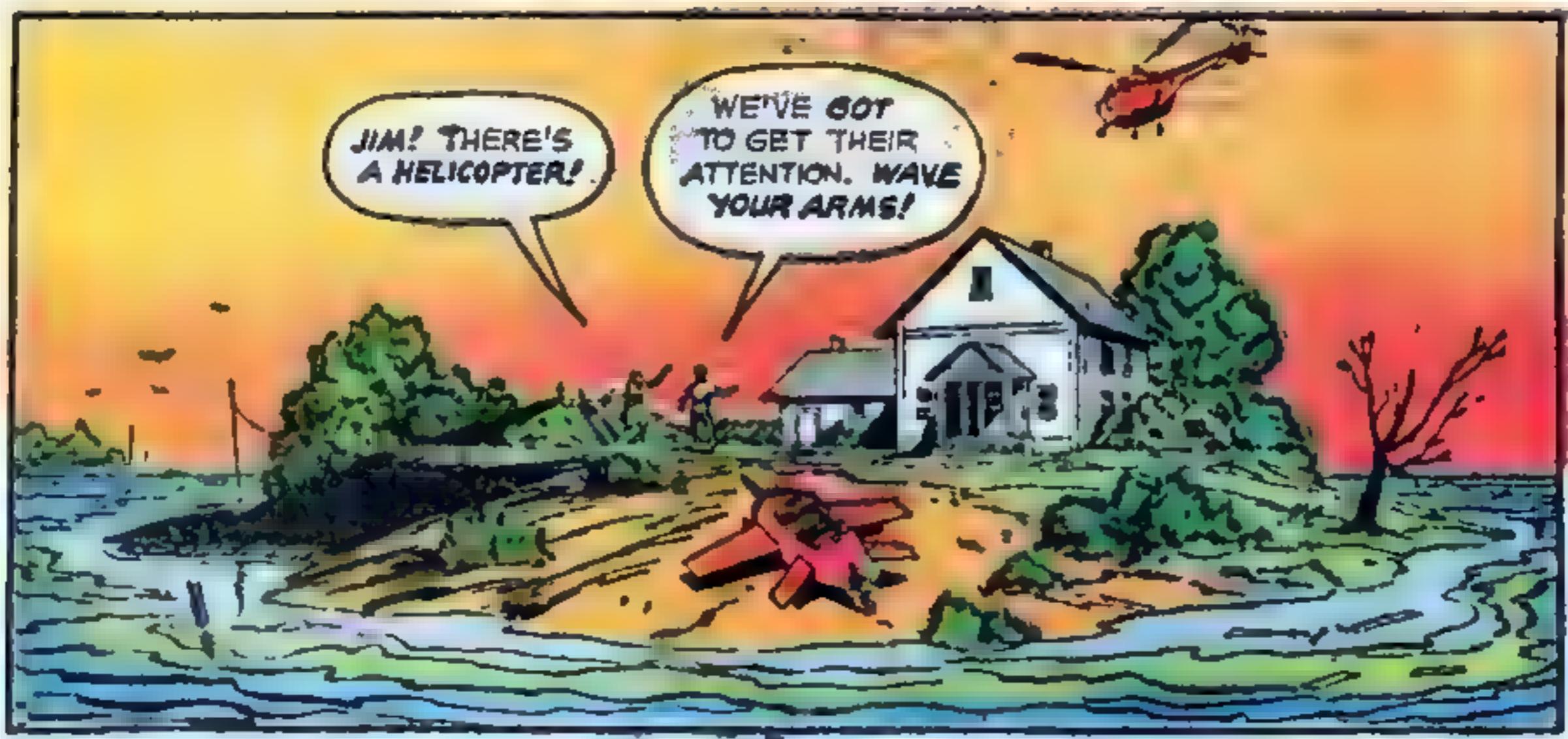
NOT UNTIL WE GET WORD THAT IT'S SAFE. RADIOPHYSICAL MONITORING TEAMS USING THE INSTRUMENTS SHOWN YOU WILL FIRST MAKE SURE WHETHER OR NOT THERE IS EVIDENCE OF FALLOUT PRESENT. WE MAY HAVE A LONG WAIT.





ATTENTION, PLEASE! THIS IS A CIVIL DEFENSE BULLETIN. WE HAVE BEEN INFORMED THAT ATTACKING AIRCRAFT HAVE BEEN DRIVEN FROM THE AREA!





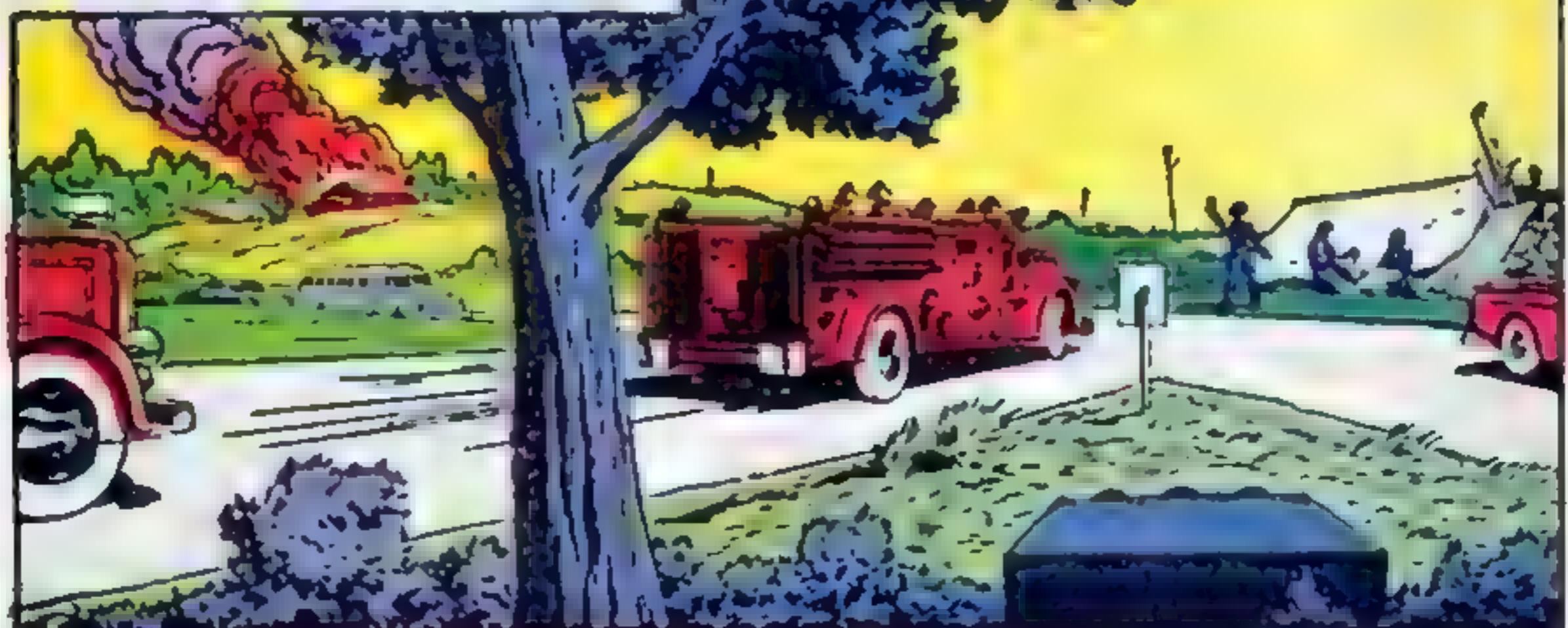
A FEW MINUTES LATER...

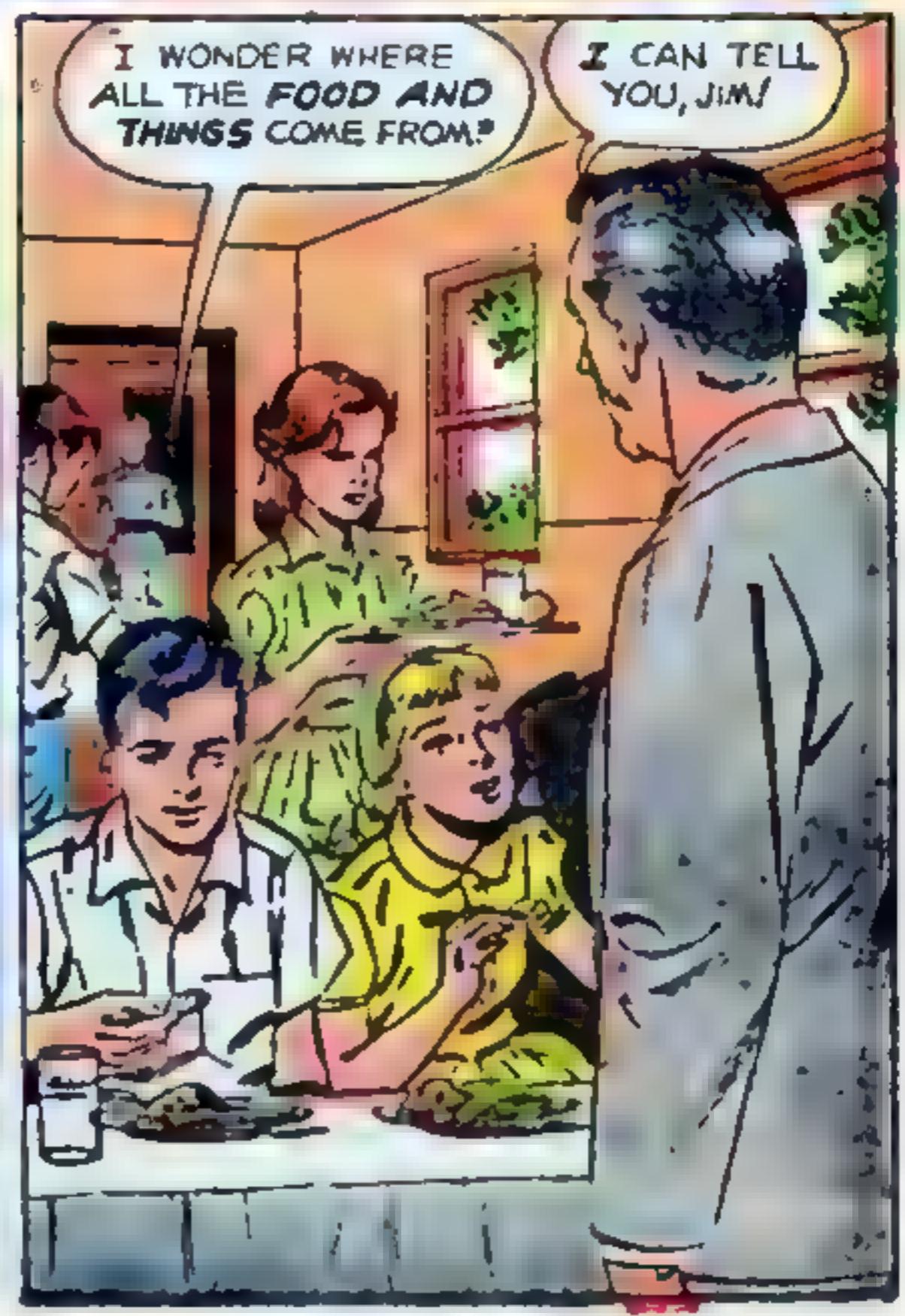
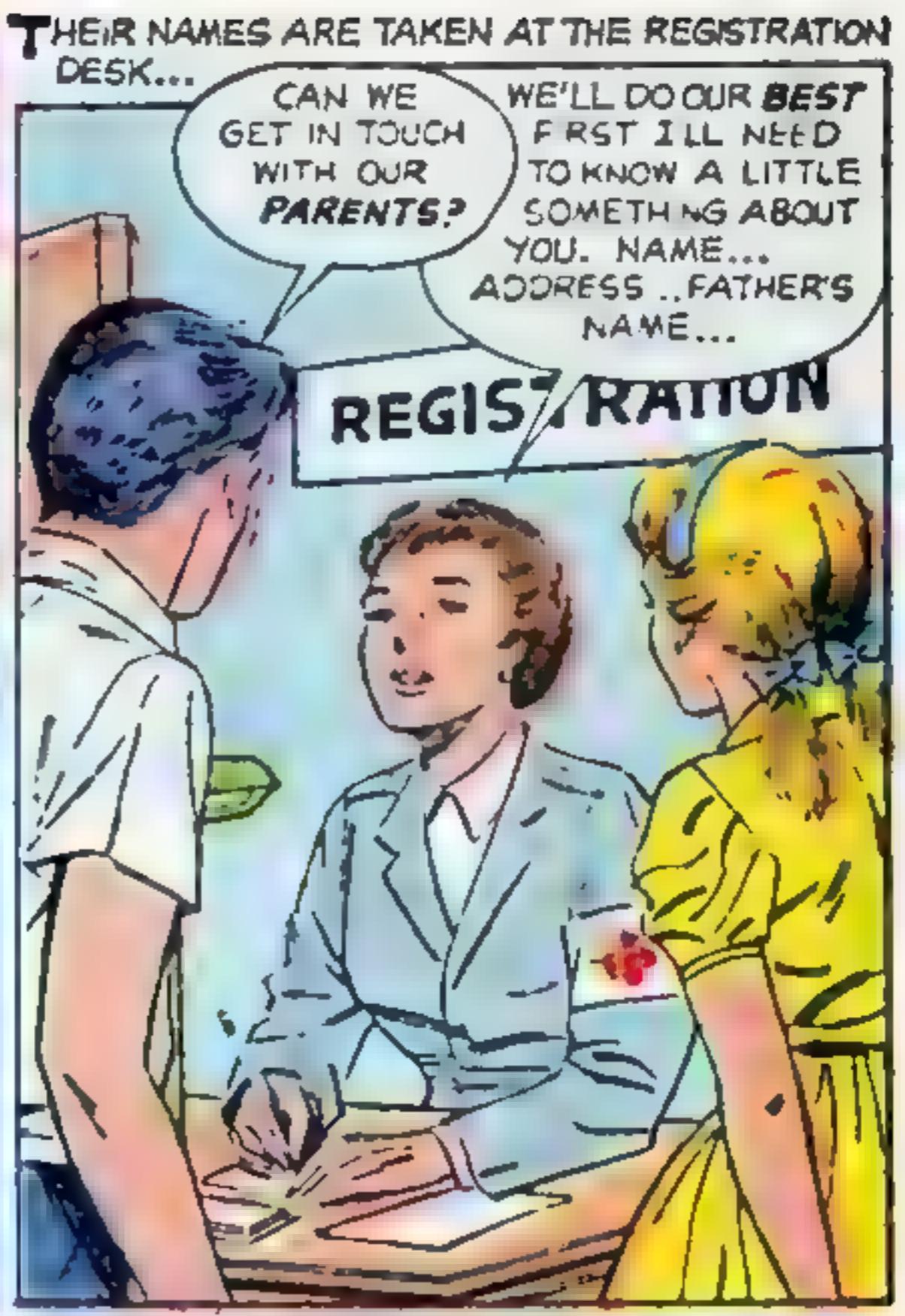


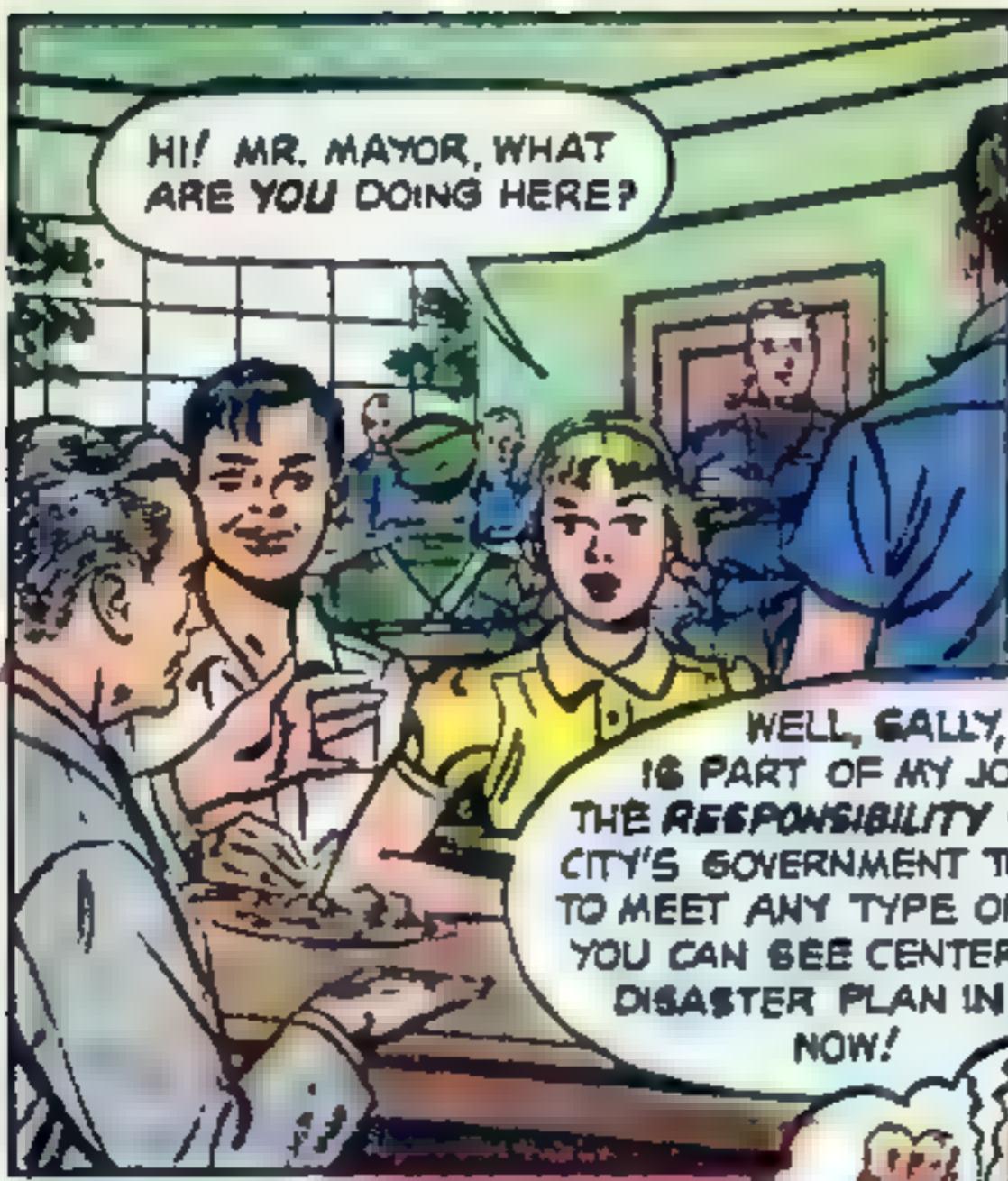
ON REACHING THE MAINLAND, JIM AND SALLY ARE DIRECTED TO A BUS TO BE TAKEN TO TEMPORARY LODGING...



EVERYWHERE THEY LOOK, EMERGENCY UNITS ARE HARD AT WORK...







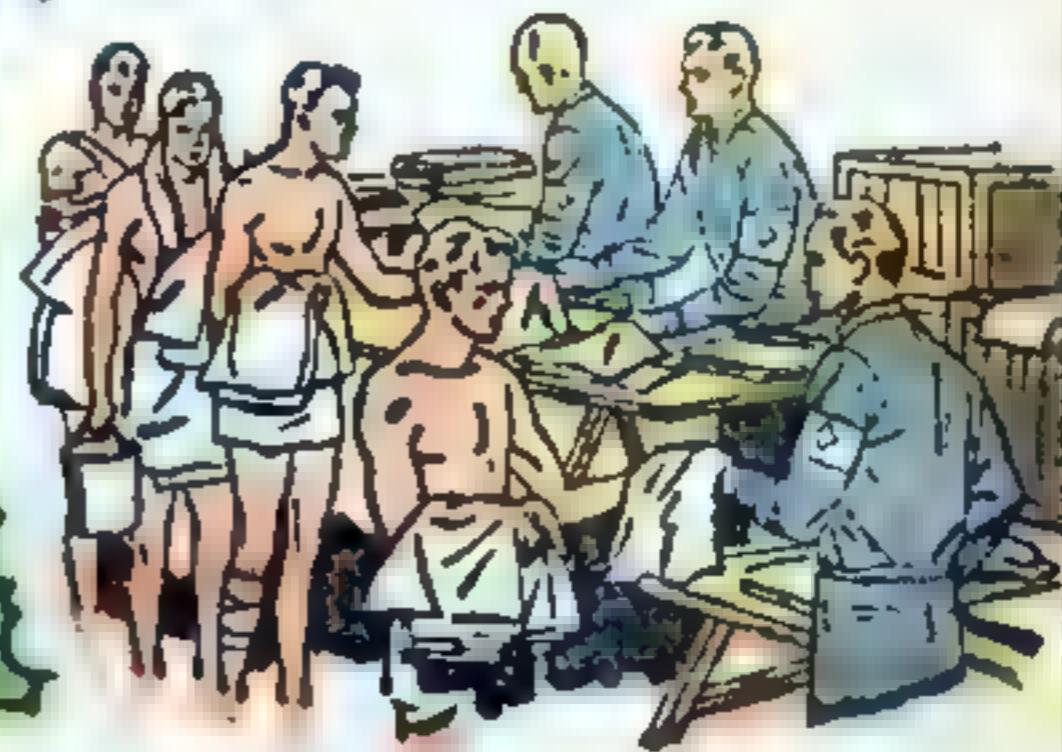
BOY! MUST TAKE AN AWFUL LOT OF TIME TO WORK OUT A DISASTER PLAN!

IT DOES, JIM! BUT WITH THE HELP OF MY CIVIL DEFENSE COORDINATOR, THE HEADS OF THE VARIOUS CITY DEPARTMENTS, THE LOCAL RED CROSS AND OTHER COMMUNITY ORGANIZATIONS, WE FIGURED OUT EXACTLY WHAT OUR COMMUNITY RESOURCES WERE SO WE WOULD KNOW WHAT WAS AVAILABLE IF DISASTER STRUCK!

WELL, GALLY, THIS IS PART OF MY JOB. IT'S THE RESPONSIBILITY OF YOUR CITY'S GOVERNMENT TO BE READY TO MEET ANY TYPE OF DISASTER. YOU CAN SEE CENTERVILLE'S DISASTER PLAN IN ACTION NOW!

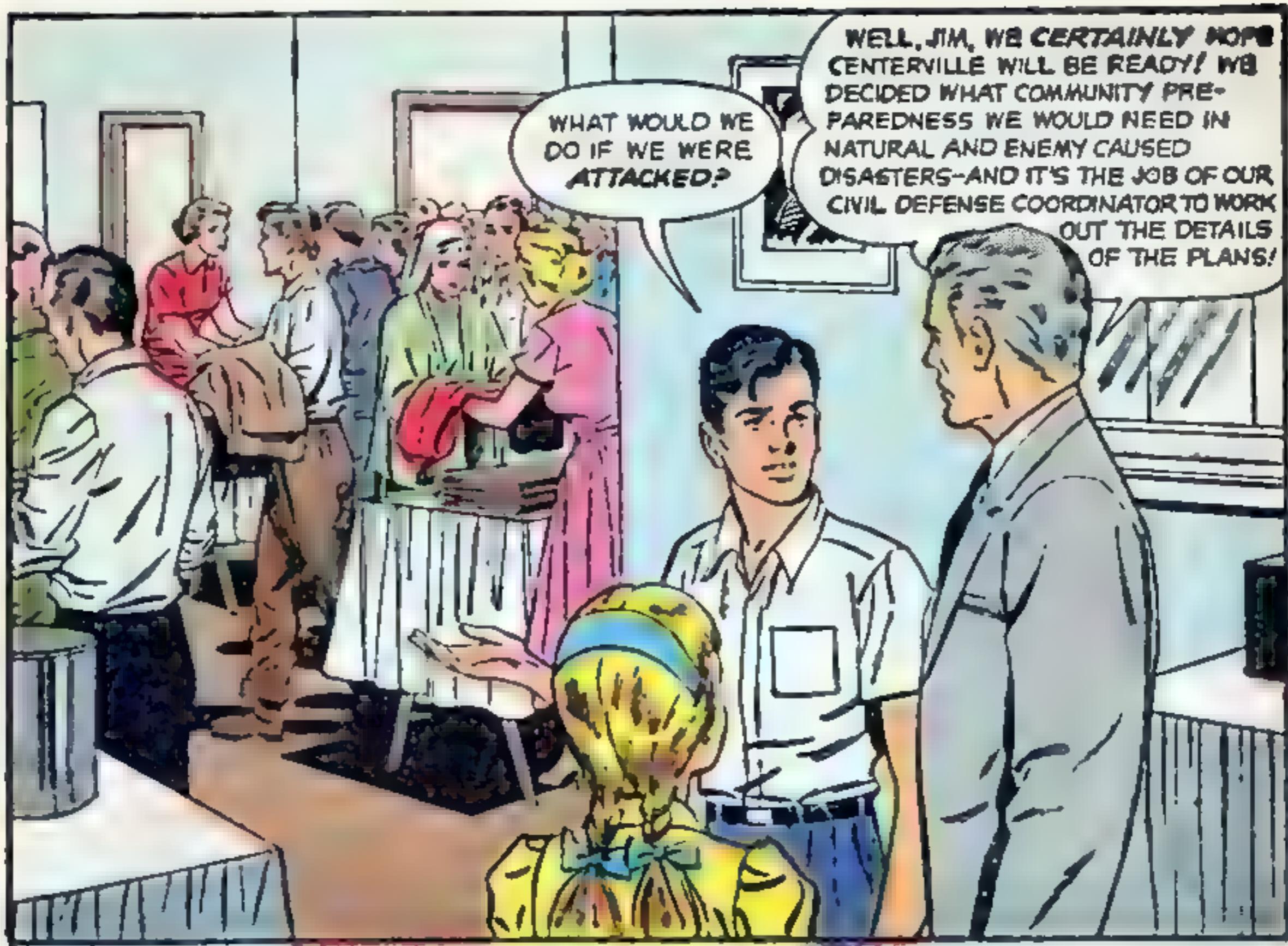


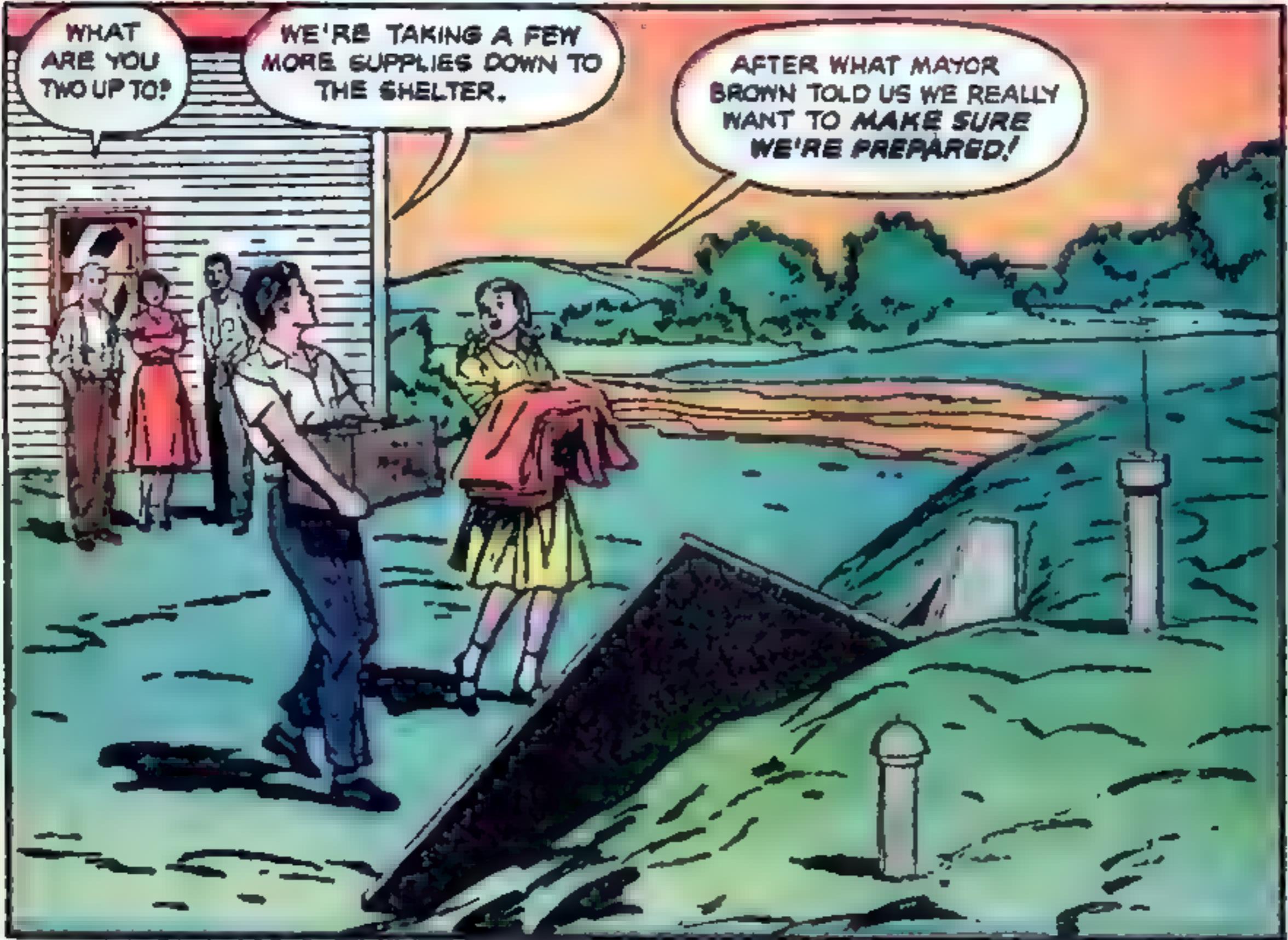
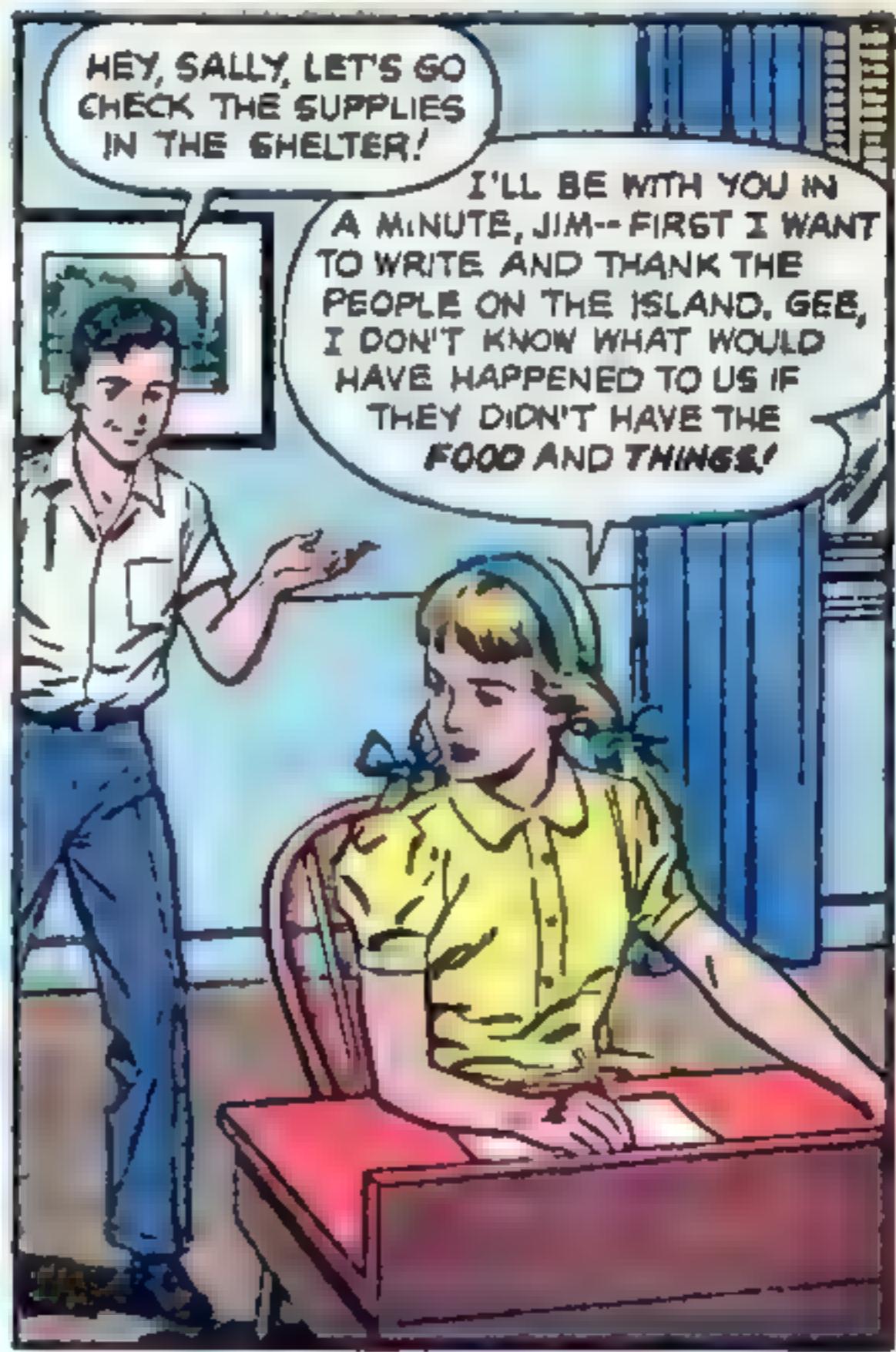
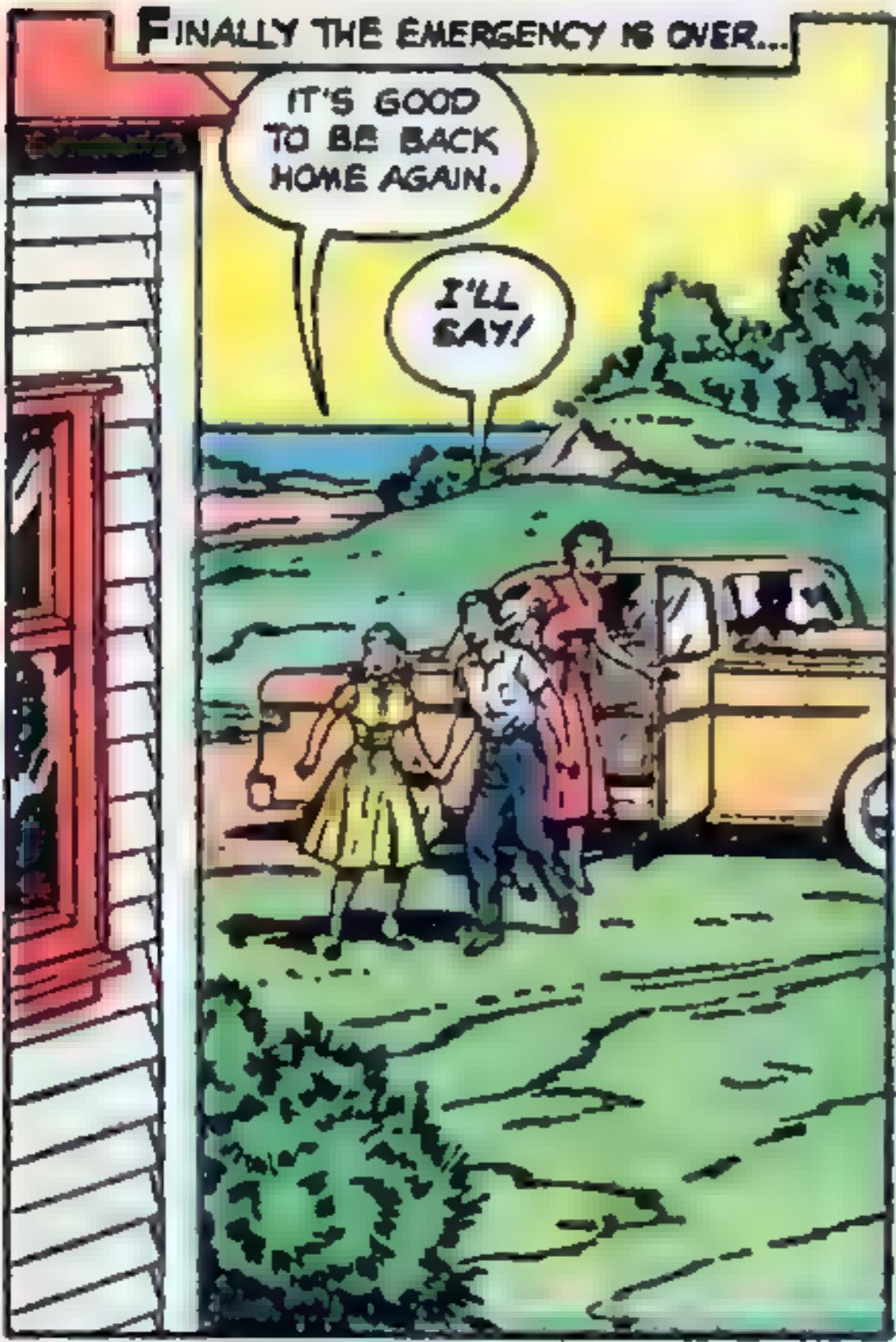
RIGHT HERE IN CENTERVILLE OUR RED CROSS CHAPTER IS RESPONSIBLE FOR PROVIDING FOOD, CLOTHING AND LODGING FOR OUR DISASTER VICTIMS.



BUT WHAT ABOUT ALL THOSE HOMES THAT WERE WASHED AWAY AND DAMAGED AND ALL THE FURNITURE THAT WAS RUINED?

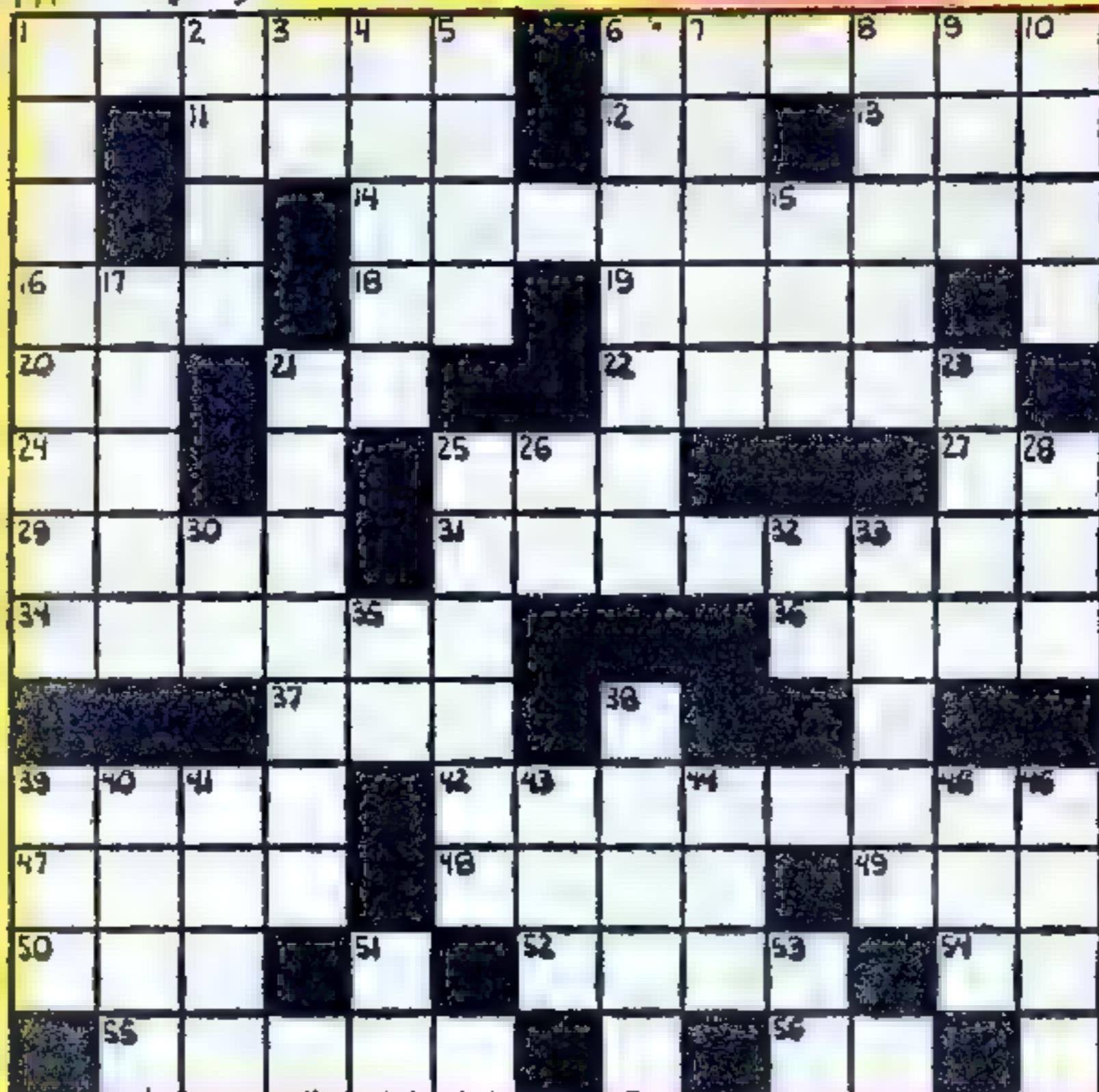








TRY YOUR HAND AT THIS PUZZLE AND SEE HOW MUCH YOU KNOW.



ACROSS

- 1 Place of safety during a tornado
- 6 What an alarm indicates
- 11 Eastern continent
- 12 Elevated train
- 13 Rural Electrification Administration (abbr.)
- 14 What this puzzle is if you can't solve it
- 16 Before
- 18 A printer's measure
- 19 Not odd
- 20 Musical note
- 21 Advertisement
- 22 Where birds go for shelter
- 24 Road (abbr.)
- 25 Used in chemical warfare
- 27 He should know about Civil Defense
- 29 Objectives
- 31 The _____ Red Cross
- 34 He can help in emergencies
- 36 The size of the atom
- 37 Terminate

- 39 Term used in radio communications
- 42 Volcanic disaster
- 47 Your city is prepared to fight this
- 48 To nominate
- 49 Untruth
- 50 May be needed in airing a bomb shelter
- 52 An instrument of alarm
- 54 French definite article
- 55 Matter of law
- 56 Word of approval

- 15 "These" in French
- 17 Communication with Civil Defense
- 21 Strict in living
- 23 A flood can wash out this part of a bridge
- 25 A well-cultivated tract of land
- 26 Morning hour
- 28 One no master which
- 30 Program director
- 32 Neutral pronoun
- 33 _____ Defense
- 35 A good defense slogan is "Carry _____"
- 38 Unauthorized report
- 39 Away
- 40 Small border
- 41 Sea eagle
- 43 Tattered cloth
- 44 Writing implement
- 45 Lubricate
- 46 Require
- 51 She should know about Civil Defense
- 53 A green traffic sign

- 1 "640-1240" Emergency broadcasting system
- 2 The kind of person first-aid may help
- 3 Left side (abbr.)
- 4 Helped
- 5 Source of water supply
- 6 Civil _____
- 7 Alert Today—_____ tomorrow
- 8 Deep, guttural sound
- 9 Elongated fish
- 10 Fixed ratio

ANSWER ON PAGE 31

GLOSSARY OF CIVIL DEFENSE WORDS AND TERMS

1. AIR BURST: Detonation of explosive ordnance (nuclear or other) in the air. For nuclear bombs this means high enough in the air so that the fireball does not reach the ground.
2. ALPHA PARTICLES: Positively charged particles emitted by some radioactive materials. They are dangerous only if ingested, inhaled, or by other means enter the body.
3. AREA TARGET: A target covering a considerable space, as distinct from a point target.
4. ATOMIC BOMB OR WEAPON: A device which utilizes fission reactions to obtain energy for destructive purposes.
5. BETA PARTICLES: Negatively charged radiation particles that are hazardous to the body, both externally and internally.
6. BIOLOGICAL WARFARE (BW): The use of living organisms or their products to cause death, disability, or damage in man, animals, and crops.
7. CHEMICAL WARFARE (CW): The use of chemicals in the form of solids, liquids, or gases to cause death, injury, or damage.
8. DOSIMETER: An instrument for measuring and registering total accumulated ionizing radiation exposure.
9. EVACUATION: Organized, timed, and supervised dispersal of civilians from dangerous and potentially dangerous areas, their reception and care in safer areas, and their return to their own home communities.
10. FALLOUT: The phenomenon whereby debris (dirt) particles, contaminated by radioactive material, fall back to the earth's surface from the bomb cloud.
11. FIRE STORM: Stationary mass fire generally in built-up urban areas generating strong, in-rushing winds from all sides which keep fires from spreading while adding fresh oxygen which increases its intensity.
12. GAMMA RAY: High energy nuclear rays which can damage the body by penetration.
13. GEIGER-MUELLER (G-M) COUNTER: Highly sensitive instrument for detecting radiation.
14. GROUND OBSERVER: Volunteer aircraft spotter for the Ground Observer Corps.
15. GROUND ZERO: The point on the earth's surface directly below a nuclear bomb air burst, directly above a subsurface burst, or at which a surface burst occurs.
16. INCENDIARY BOMB: Bomb designed to initiate fires.
17. LODGING: A temporary place to live when evacuated before an attack or when homeless after an attack (distinguished from "shelter" which offers special protection against weapons and effects).
18. NEUTRONS: Highly penetrating nuclear radiation particles emitted at the moment of explosion.
19. NUCLEAR BOMB OR WEAPON: A device which utilizes nuclear fission or fusion reactions to obtain energy for destructive purposes.
20. PSYCHOLOGICAL WARFARE: The use by an enemy of rumors, half-truths, propaganda, and covert operations leading to panic, fright, and disordered flight, which may destroy a people's will to resist.
21. RADIOACTIVITY: Spontaneous disintegration or nuclear transformation of certain atoms in which energy is released. The process is accompanied by emission of one or more types of radiation (alpha, beta, or gamma).
22. REFUGE: Any enclosure that will give some protection from the effects of weapons in the absence of a specially built shelter structure.
23. SHELTER: A specially built structure for protecting people, records, or equipment, from blast, thermal effects, and initial and residual radiation in attack.
24. SURFACE BURST: Detonation of explosive ordnance on or close to the ground or water surface. A nuclear bomb surface burst is characterized by the fireball touching the ground or water surface.
25. SURVEY RATE METERS: Portable instruments such as Geiger counters and ionization chambers used to detect radiation and measure dose rate.
26. TARGET: Any facility or group of facilities which because of large population concentration and/or for vital nature of the products or services to national defense is presumed to be a likely mark for enemy attack.
27. THERMONUCLEAR BOMB OR WEAPON: A device which makes use of thermonuclear fusion reaction to obtain energy for destructive purposes.

QUIZ

1. (Circle the correct answer.) In order to cope with any type of disaster, a community must
(have many people) (be prepared) (wait for the armed forces).
2. List at least 6 agencies of your local government that must be ready to protect the people
of a community in time of disaster.

1. _____
2. _____
3. _____
4. _____
5. _____
6. _____

3. Name at least 5 basic items that families should have in order to be prepared for any type
of disaster.

1. _____
2. _____
3. _____
4. _____
5. _____

4. What is radioactive fallout? _____

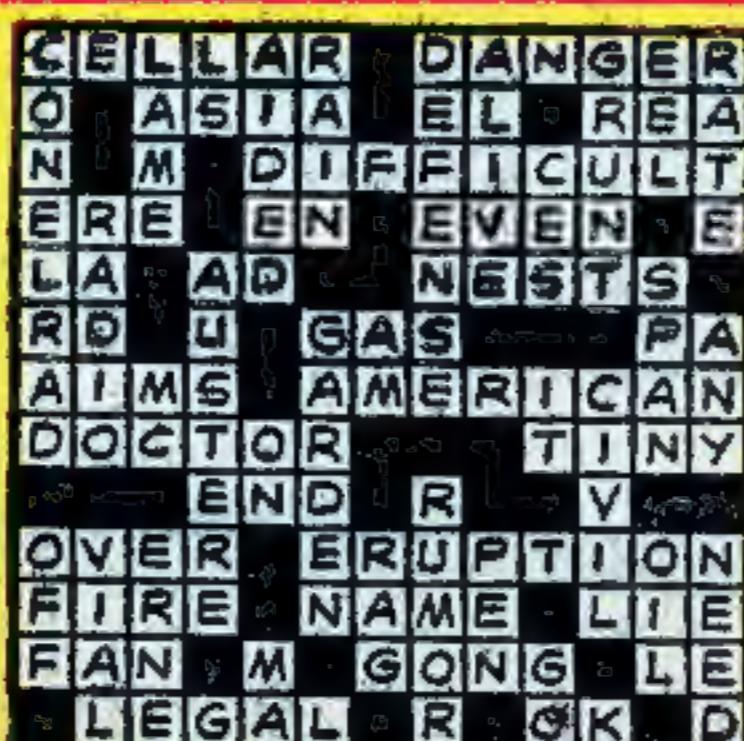
5. Name 2 instruments that are used for measuring radioactivity.

1. _____
2. _____

6. What is a dosimeter? _____

7. List 4 new ideas that you have learned from reading this booklet.

1. _____
2. _____
3. _____
4. _____



LEARN



1. WARNING SIGNALS
AND WHAT THEY MEAN.

2. YOUR COMMUNITY
CIVIL DEFENSE
PLAN.

3. FIRST AID AND HOME
EMERGENCY PREPAREDNESS.

ADVERTISEMENT



**THE
GREATEST
SCANNER
WEST OF THE
PECOS**

Please Support Our Sponsors